

ORDER NO.VMD0201002C8

Service Manual

Digital Video Camera/Recorder

Panasonic

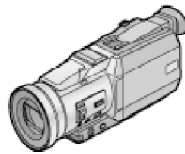
Mini DV PAL

MultiMediaCard™

NV-MX350EG / NV-MX350B / NV-MX350EN / NV-MX350A

VOL.1

Q3-MECHANISM



SPECIFICATIONS

SPECIFICATIONS Digital Video Camera

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: DC 7.9 / 7.2 V	STANDARD ILLUMINATION	1,400 lx
	Consumption: Recording 4.7 W (When using Viewfinder) 5.6 W (When using LCD Monitor)	MINIMUM REQUIRED ILLUMINATION	8 lx (Low Light Mode)
RECORDING FORMAT	Mini DV (Consumer-use Digital Video SD Format)	USB / Mini System(E)	Card reader / writer function, USB 1.1 compliant (maximum 12Mbps)
TAPE USED	6.35 mm digital video tape		No copyright protection support / Mini System editing terminal
RECORDING / PLAYBACK TIME	SP mode: 80 min. with DVM80 LP mode: 120 min. with DVM80	DIGITAL STILL PICTURE	Digital Still Picture Output, Control Signal Input / Output (Transfer rate: max. 115 kbps)
CAMERA	Filter Diameter: 43 mm	DIGITAL INTERFACE	DV Input/Output Terminal (IEEE1394, 4 pin)
	Zoom: 12:1 Power Zoom	MICROPHONE	Stereo
	Monitor: 3.5-inch LCD	SPEAKER	1 round speaker φ20 mm
	Lens: Auto Iris, F1.6, Focal Length: 3.55 - 42.6 mm Macro (Full Range AF)	OPERATING TEMPERATURE	0 - 40 °C
	Image Sensor: 1/4-inch 3CCD Image Sensor (Effective Pixels: 360K x 3, Total: 570K X 3)	OPERATING HUMIDITY	10 - 80 %
VIDEO	Viewfinder: Colour Electronic Viewfinder	WEIGHT	Approx. 720 g(without Battery and DV Cassette) Approx. 780 g(with VSB0419 and DVM60)
	Recording System: Digital Component	DIMENSIONS	Approx. 72 (W) x 94 (H) x 219 (D) mm
	Television System: CCIR: 625 Lines, 50 Fields PAL Colour Signal	STANDARD ACCESSORIES	1 pc. AC Adaptor
	Video Output Level: 1.0 Vp-p, 75Ω		1 pc. Battery Pack Unit
	S-Video Output Level: Y Output: 1.0 Vp-p, 75Ω C Output: 0.3 Vp-p, 75Ω		1 pc. DC Cable
AUDIO	Video Input Level: 1.0 Vp-p, 75Ω		1 pc. AC Cord
	S-Video Input Level: Y Input: 1.0 Vp-p, 75Ω C Input: 0.3 Vp-p, 75Ω		1 pc. AV Cable
	Recording System: PCM Digital Recording 16 bit (48 kHz/2 ch) 12 bit (32 kHz/4 ch)		1 pc. Remote Controller
CARD MEMORY FUNCTIONS	Audio Output Level (Line): 316 mV, 600Ω		1 pc. Bottom-type Battery
	Audio Input Level (Line): 316 mV, 10 kΩ or more		1 pc. Head Cleaner ; NV-MX350EN/A
	Mic Input: Mic sensitivity -50dB(0dB=1V/Pa,1kHz) (Stereo Mini Jack)		1 pc. Hood Cap Unit
	Recording Media: SD Memory Card, MultiMediaCard		1 pc. Hood Strap
	Image Compression: JPEG		1 pc. Driver Soft
	Video Compression: MPEG4		1 pc. USB Connection Cable
	Still Image Size: Mega-Pixel Recording:1568 X 1152 (1.81 million pixels)		1 pc. SD Card
	VGA Recording: 640 X 480		1 pc. Shoulder Belt
	Sound Compression: G.726		

Weight and dimensions are approximate values.
Specifications may change without prior notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

1.1. INTRODUCTION

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

Information for Q-Mechanism should be referred to the another manual as below.

Order No. : VMD0109026C8

Note 1:

These movie cameras use AC Adaptor is VSK0592.

The service manual for AC Adaptor is separate volume.

Order number for AC Adaptor VSK0592 : VMD0009025C8

Note 2:

1) This service manual does not contain the following information, because of the impossibility of servicing at component level.

1. Schematic Diagram, Block Diagram and C.B.A. layout of Main C.B.A./ Camera C.B.A.
2. Parts List for individual parts of Main C.B.A./ Camera C.B.A.
3. Exploded View and Parts List for individual parts of Mechanism Unit.

2) The following category is/are recycle module part. Please send it/them to Central Repair Center.

*Main C.B.A. (VEP03F95F)/ Camera C.B.A. (VEP23566A)

When a part replacement is required for repairing each Main C.B.A. and/ or Mechanism block, replace the assembly parts.

(Main C.B.A., Camera C.B.A. and/ or Mechanism Unit)

The following circuits are contained in Main C.B.A.

1. Main Connection Circuit
2. Drive Circuit
3. Video 1 Circuit

4. Video 2 Circuit
5. Control Circuit
6. SD Audio Circuit
7. Ex Input Circuit
8. LCD Circuit
9. Head/ Rec Amp Circuit
10. Power Circuit
11. DSC Circuit

The following circuits are contained in Camera C.B.A.

1. Sub Connection Circuit
2. Lens Drive Circuit
3. Process Circuit
4. Sensor Circuit

1.2. FEATURE COMPARISON CHART

FUNCTION	EG	B	EN	A
MPEG4 Recording (Card)	●	●	●	●
Voice Recording (Card)	●	●	●	●
External DV/VIDEO Input	●	●	●	●

2. CAUTION FOR AC CORD (VJA0940 TYPE)

2.1. INFORMATION FOR YOUR SAFETY

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION

To reduce the risk of fire or shock hazard and annoying

interference, use the recommended accessories only.

FOR YOUR SAFETY

DO NOT REMOVE THE OUTER COVER

To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2.2. CAUTION FOR AC MAINS LEAD

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362

Check for the ASRA mark or the BSI mark on the body of the fuse.



If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safely.

There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

2.2.1. Important

The wires in this mains lead are coloured in accordance with the following code:

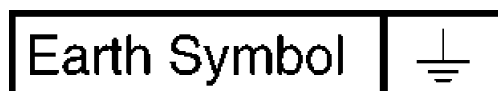
Blue	Neutral
Brown	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

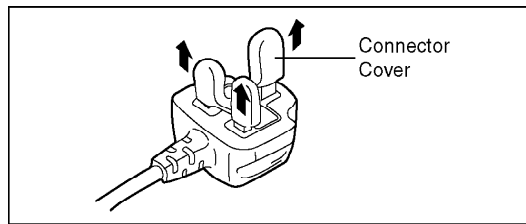
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol.



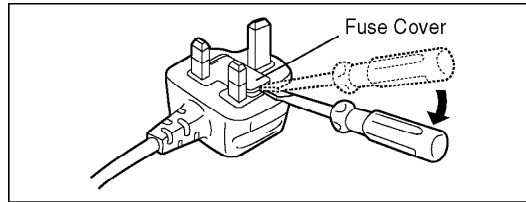
2.2.2. Before use

remove the Connector Cover as follows.

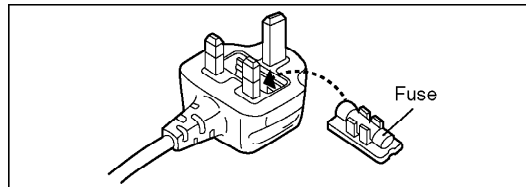


2.2.3. How to replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.



3. SERVICE CAUTION

3.1. HOW TO DISCHARGE THE CAPACITOR ON FLASH C.B.A.

CAUTION

Be sure to discharge the capacitor on Flash C.B.A. before disassembling.

CAUTION

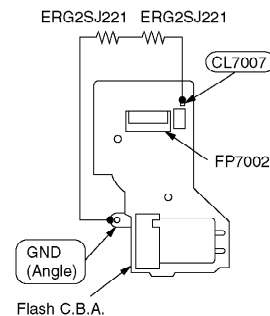
Be careful of the high voltage circuit on Flash C.B.A. when servicing.

Method:

1. Prepare the 2 Resistors (ERG2SJ221:220 ohm/2w) for discharge.

Note:

1. Above 2 Resistors may be substituted with equivalent type.
2. Make short circuit using 2 Resistors between CL7007 and GND for 3 seconds as follows.
3. After discharging, confirm that the capacitor voltage is sufficiently lowered using a voltmeter



3.2. EEPROM DATA FOR SPARE PARTS OF THE MAIN C.B.A.

When the Main C.B.A. is replaced, the fixed and average data must be changed by Tatsujin kit according to the Movie Camera's suffix.

Then, confirm and/or adjust the VTR and Camera section one by one.

3.3. SERVICE EXTENSION CABLES.

This models is required the following extension cables for all connections.

Note 1:

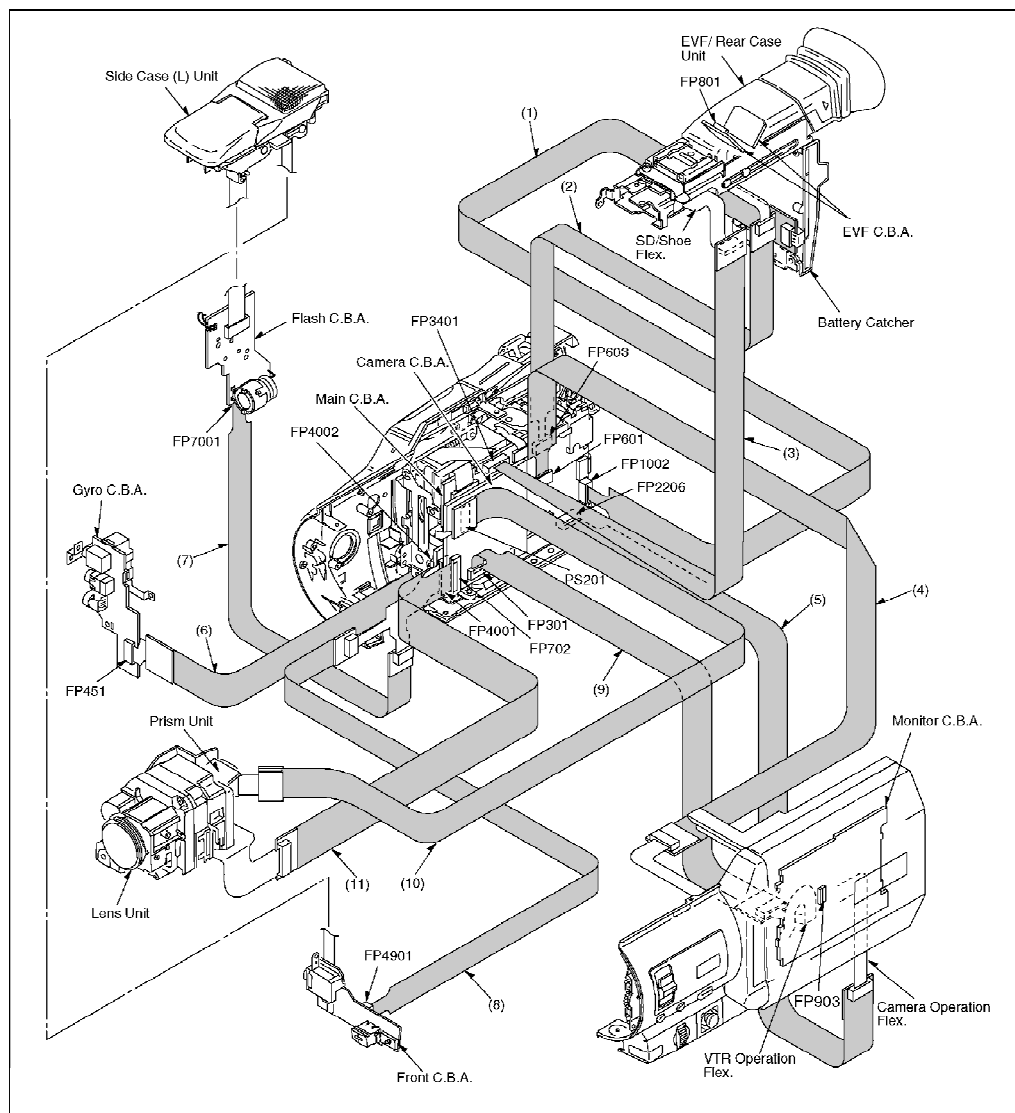
Use the following extension cables when checking or adjusting individual circuit boards except module Parts.

(Main C.B.A. and Camera C.B.A.)

Ref.	Part No.	Pin	Part Name	Connection	Q'ty	Remarks
(1)	VFK1364	14	Flat Cable	FP1002 (Main) - Battery Catcher	1	as NV-DS55
(2)	VFK1442	21	Flat Cable	FP603 (Main) - FP801(EVF)	1	as NV-DS77
(3)	VFK0977	20	Flat Cable	FP3401 (Main) - SD/Shoe Flex.	1	as NV-DS77
(4)	VFK1491	27	Flat Cable	FP601 (Main) - FP903(Monitor)	1	as NV-DS99
(5)	VFK1364	14	Flat Cable	FP2206 (Main) - Camera Operation	1	as NV-DS55
(6)	VFK1492	26	Flat Cable	FP4002 (Main) - FP451(Gyro)	1	as NV-DS99
(7)	VFK1491	27	Flat Cable	FP4001 (Main) - FP7001(Flash)	1	as NV-DS99
(8)	VFK1364	14	Flat Cable	FP4001 (Main) - FP4901(Front)	1	as NV-DS55
(9)	VFK1716	25	Flat Cable	FP301 (Camera) - VTR Operation	1	NEW
(10)	VFK1490	34	Flat Cable	PS201 (Camera) - Prism Unit	1	as NV-DS99
(11)	VFK1459	39	Flat Cable	FP702 (Camera) - Lens Unit	1	as NV-EX1

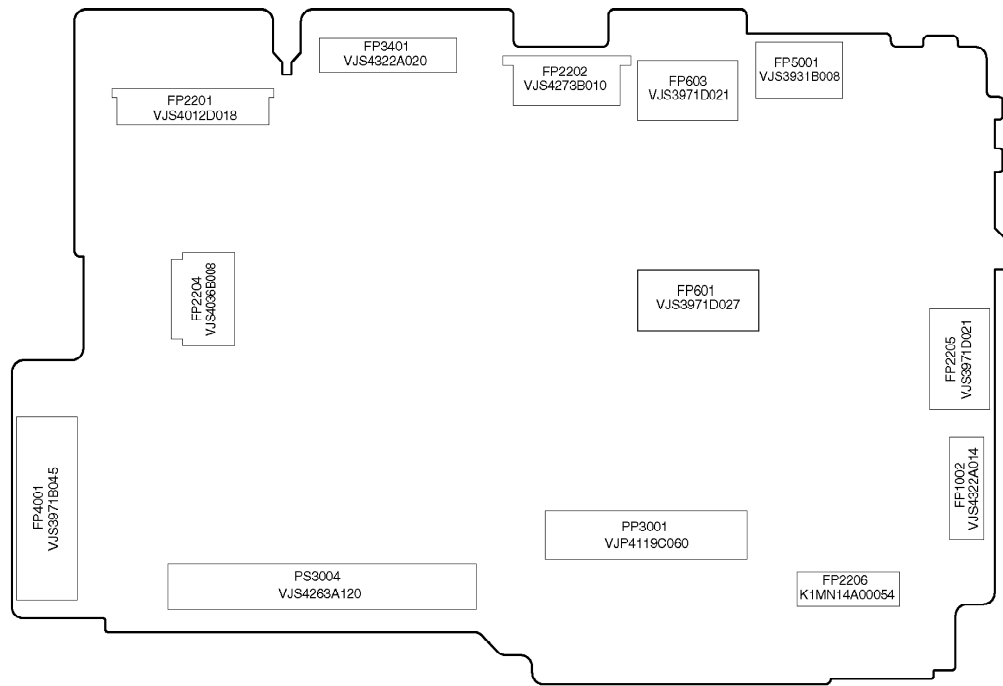
How to use extension cables.

Fig. T1-1

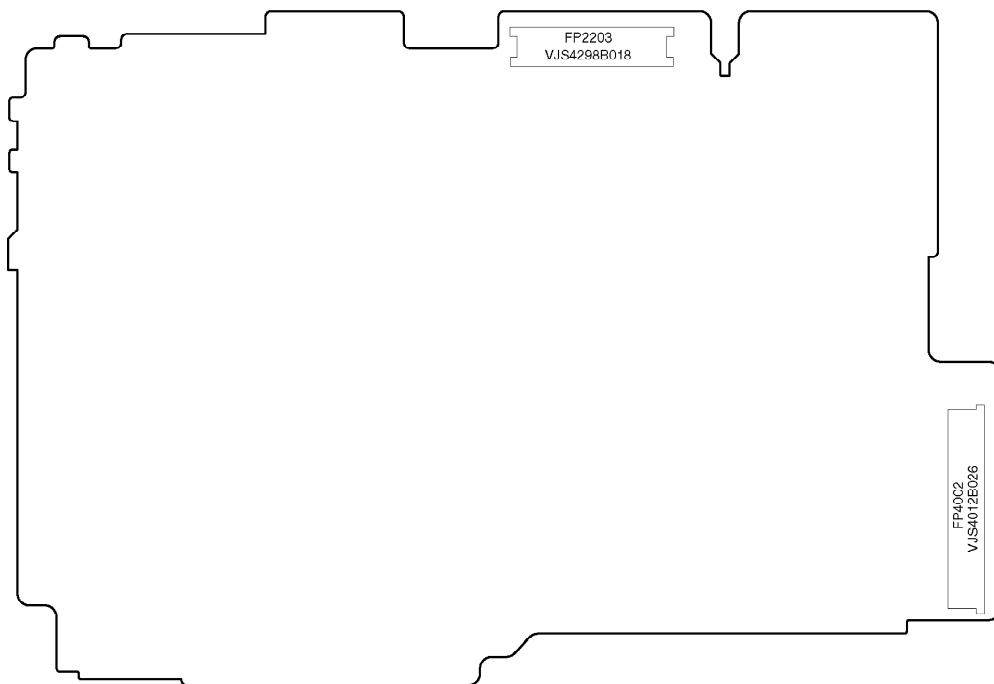


3.4. LOCATION FOR SPARE CONNECTORS OF THE MAIN C.B.A. & CAMERA C.B.A.

3.4.1. MAIN C.B.A.

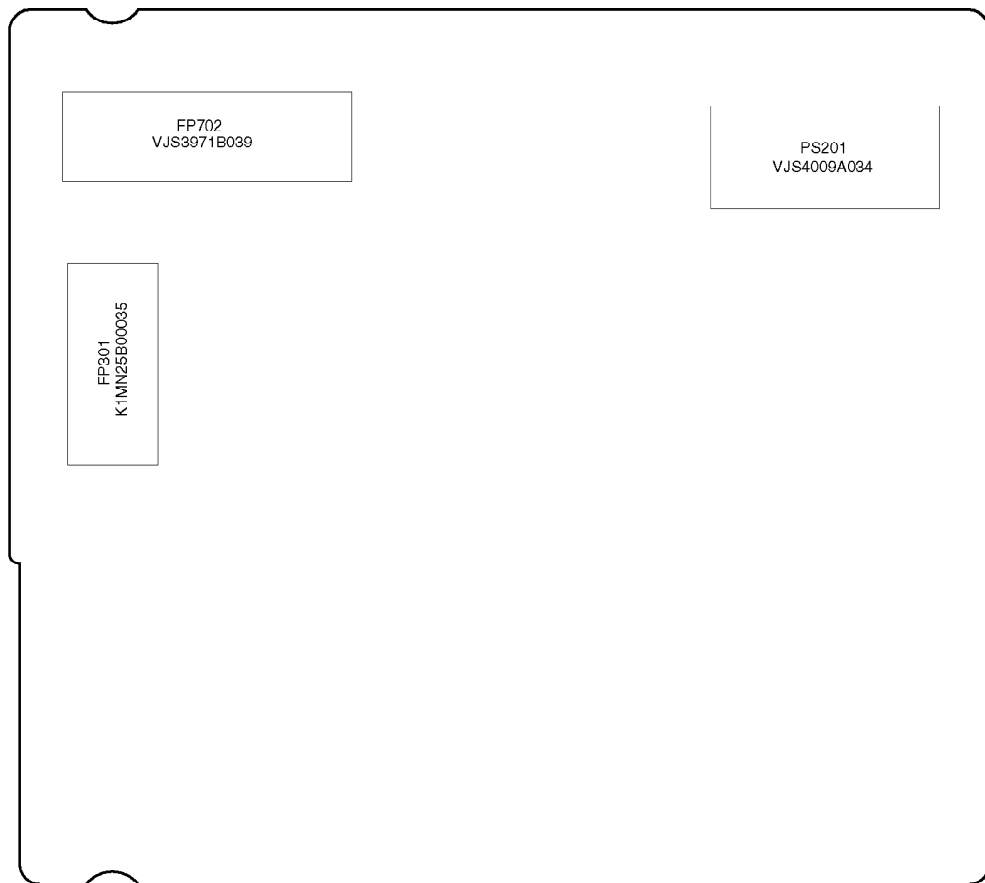


(COMPONENT SIDE)

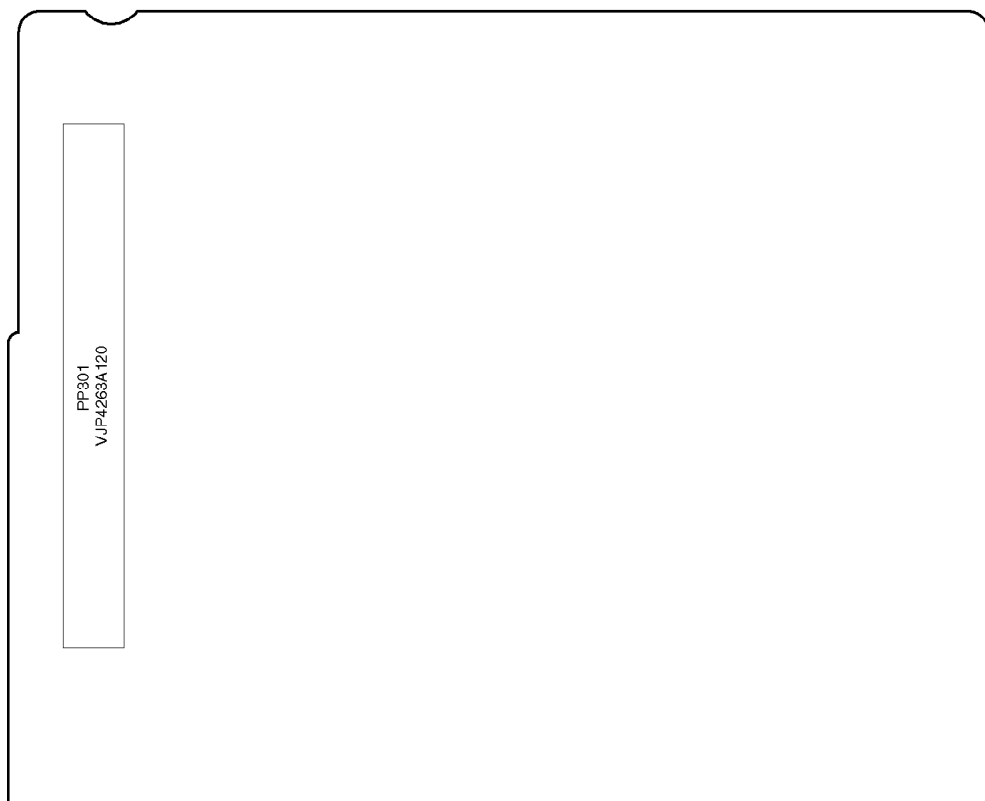


(FOIL SIDE)

3.4.2. CAMERA C.B.A.



(COMPONENT SIDE)

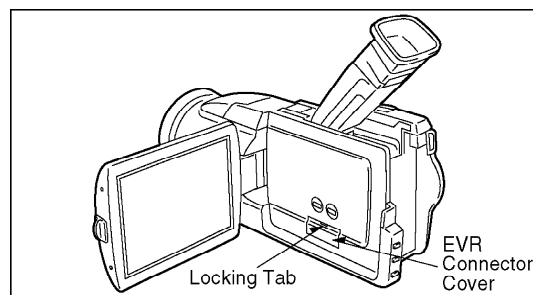


(FOIL SIDE)

4. PREPARATION FOR ELECTRICAL ADJUSTMENT

1. Unlock the locking tab and remove the EVR connector as shown in **Fig. E1** .
2. Then connect the following cables as shown in **Fig. E2** .

Fig. E1



Part No.	Part Name	Q'ty	Remarks
VFK1395	232C(M3)/F Cable	1	
VFK1308E	Measuring Board	1	
VFK1309	EVR Connector Board	1	
VFK1317 or VFK1511	30 Pin Flat Cable	2	200mm Type 300mm Type
VJA0941	DC Output Cable	1	For AC Adaptor
VFK1164TAR43	Step up Ring	1	For Collimator
VFK1309EX	Connection Adaptor	1	

Fig. E2

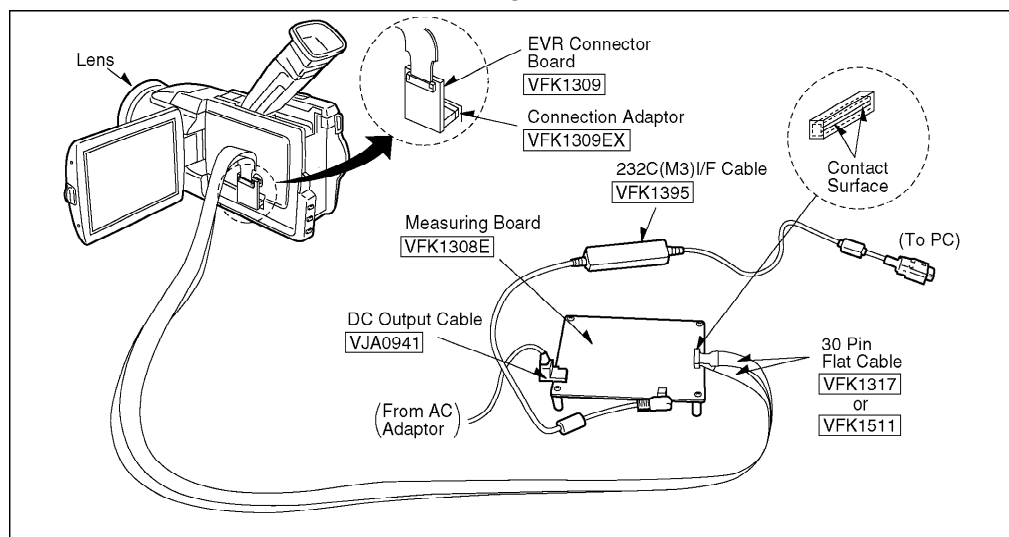
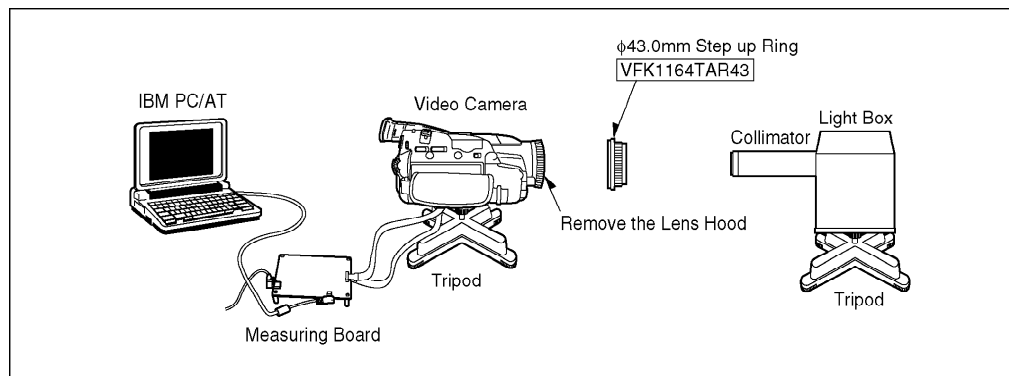


Fig. E3

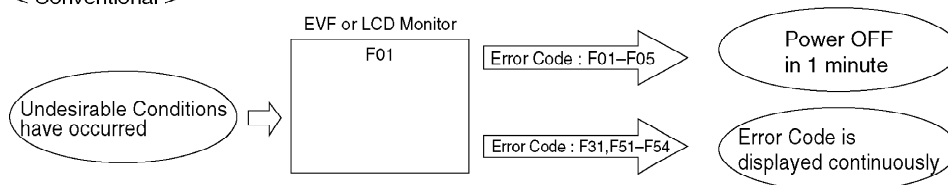


5. SERVICE MODE

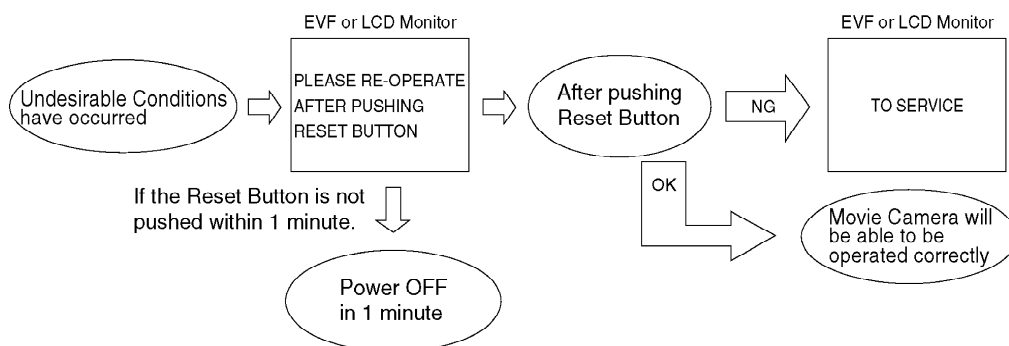
5.1. New Error Code Display

Conventionally, the error code has been displayed automatically on the EVF or LCD Monitor when undesirable conditions have occurred. With the New Error Code Display, the error code has not been displayed automatically as follows except some error codes F31(Data Transmission Error), U10(Dew) and U11(Head Clogging).

< Conventional >



< New >



Note:

1. The only some error codes F31, U10 and U11 has displayed automatically on the EVF or LCD monitor as usual.
2. The Power LED also has been flashed for 1 min. when undesirable condetions have occurred.(See below)

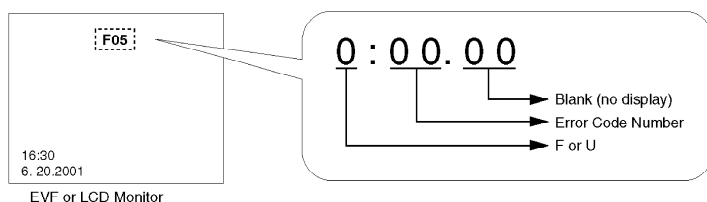
5.2. Viewing Error Code

When displaying the Error Code on the EVF or LCD Monitor, push the FADE/STOP and REC START/PAUSE buttons simultaneously for more 3 seconds.

Note:

When the cassette tape is inserted, this operation will not be

worked.

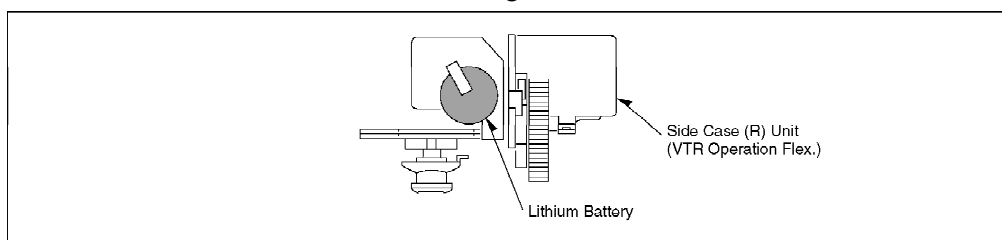


DISPLAY	CONDITION	POWER OFF TIMING / POWER LED FLASHING TIMING
F01	T-Reel Lock	After 1 minute flashing the LED
F02	S-Reel Lock	After 1 minute flashing the LED
F03	Unloading Lock	After 1 minute flashing the LED
F04	Loading Lock	After 1 minute flashing the LED
F05	Cylinder Lock	After 1 minute flashing the LED
F31	Data Transmission Error	Not turning OFF
F51	Zoom Motor Lock	Not turning OFF Power LED is flashed at 1 Hz timing
F52	Focus Motor Lock	Not turning OFF Power LED is flashed at 1 Hz timing
F53	OIS Lock (Sensor)	Not turning OFF
F54	OIS Lock (Motor)	Not turning OFF
U10	Dew Detection	After 18 seconds flashing the LED Power LED is flashed at 1 Hz timing
U11	Head Clogging	Not turning OFF

6. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

1. Remove the Side Case (R) Unit. (Refer to Disassembly Procedures.)
2. Unsolder the Lithium Battery “VSB0407” and then replace the new one. (See **Fig. B1** .)

Fig. B1



Note:

The lithium battery is a critical component. (Type No.: VSB0407 Manufactured by Panasonic.) It must never be subjected to excessive heat or discharge. It must therefore only be fitted in equipment designed specifically for its use. Replacement batteries must be of the same type and manufacture. They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

**Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.**

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

VORSICHT

Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom Hersteller empfohlenen Batterie vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri-Eksplussionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

7. OPERATING GUIDE

8. ADJUSTMENT PROCEDURES

8.1. DISASSEMBLE FLOW CHART

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mecha. Unit in order to access to be serviced. When reinstalling, perform the steps in the reverse order.

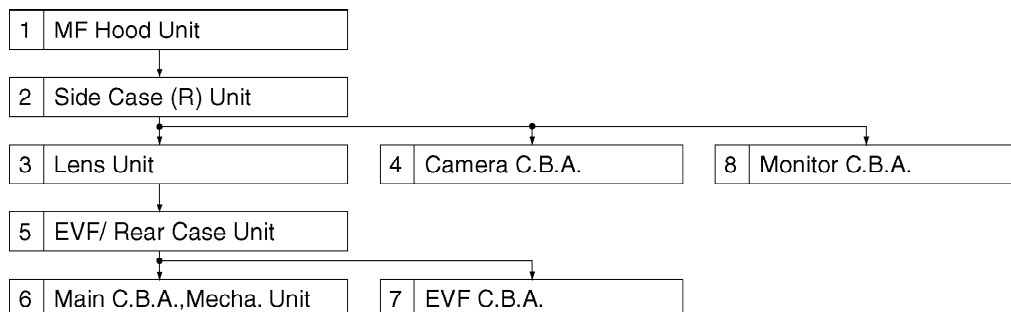
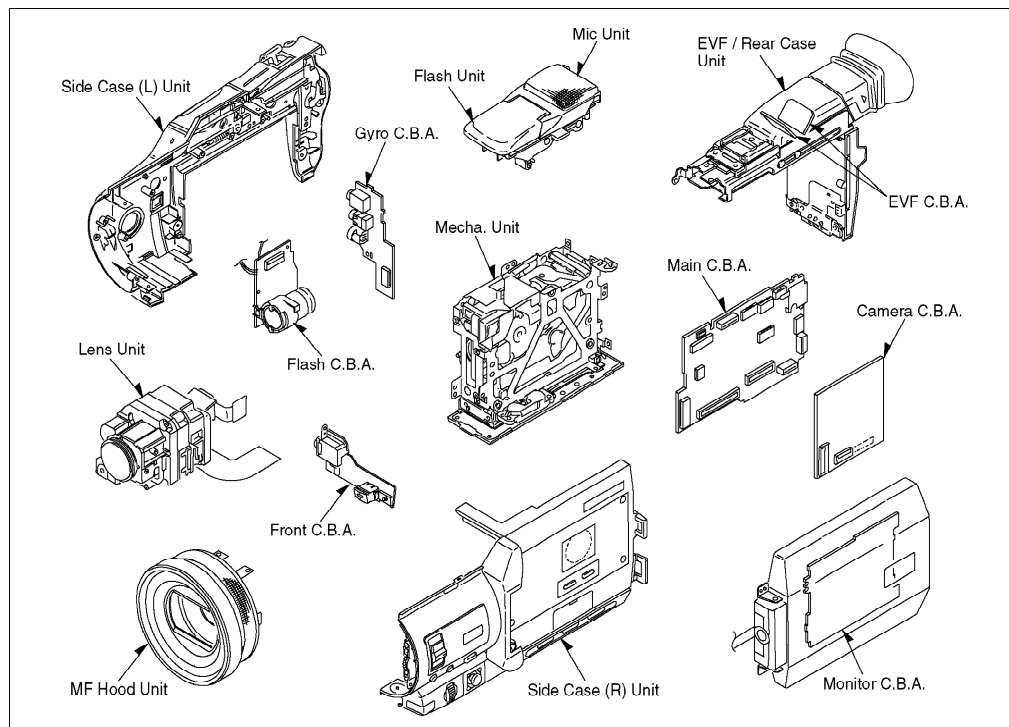


Fig. F1



8.2. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw & Other)
1	MF Hood Unit	Fig. D2	Flash Open 2-Screws (A)
		Fig. D3	1-Screw (B)
		Fig. D4	1-Screw (C) MF Hood Unit
2	Side Case (R) Unit	Fig. D5	1-Screw (D) 4-Screws (E)
		Fig. D6	1-Screw (F) 2-Screws (G)
		Fig. D7	1-Screw (H)
		Fig. D8	3-Connectors FP301/FP601/FP2206 Side Case (R) Unit
3	Lens Unit	Fig. D9	2-Screws (I) 2-Connectors FP702/PS201
		Fig. D10	Lens Frame 3-Screws (K) Lens Unit

No.	Item/Part	Fig.	Removal (Screw & Other)
4	Camera C.B.A.	Fig. D11	1-Connector PS3004 Camera C.B.A.
5	EVF / Rear Case Unit	Fig. D12	3-Screws (L)
		Fig. D13	1-Screw (M)
		Fig. D14	Discharge the capacitor. 1-Screw (N) 3-Connectors FP603/FP1003/FP3401 EVF / Rear Case Unit
6	Mecha. Unit & Main C.B.A.	Fig. D15	Cassette Cover (C) Open (Lock Release Lever)
		Fig. D16	2-Screws (O) 3-Connectors FP451/FP2205/FP4001 4-Tabs Mecha. Unit / Main C.B.A.
		Fig. D17	5-Connectors FP2201/FP2202/FP2203 FP2204/FP5001 2-Tabs Gyro Flex. Main C.B.A.
		Fig. D18	3-Screws (P) Mecha. Unit
7	EVF C.B.A.	Fig. D19	1-Screw (Q) EVF / EVF Slide Unit
		Fig. D20	2-Screws (R) EVF Unit
		Fig. D21	Eye Cap Unit 2-Tabs EVF Case (Upper)
		Fig. D22	2-Tabs 2-Connectors FP801/FP802 EVF C.B.A.

No.	Item/Part	Fig.	Removal (Screw & Other)
8	Monitor C.B.A.	Fig. D23	4-Screws (S) Camera Radiation Plate
		Fig. D24	2-Screws (T) Hinge Case 2-Screws (U) LCD Unit
		Fig. D25	4-Screws (V) 2-Screws (W) 5-Tabs LCD Case (Upper)
		Fig. D26	1-Screw (X) 1-Connector FP903 LCD Hinge Unit
		Fig. D27	1-Screw (Y) 1-Connector FP901 2-Solder Portion Monitor C.B.A.

Fig. D1

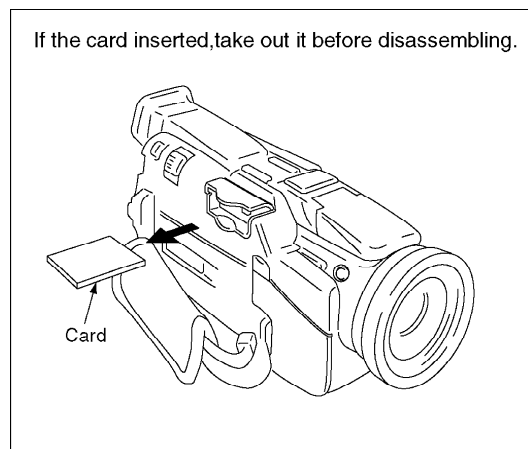


Fig. D2

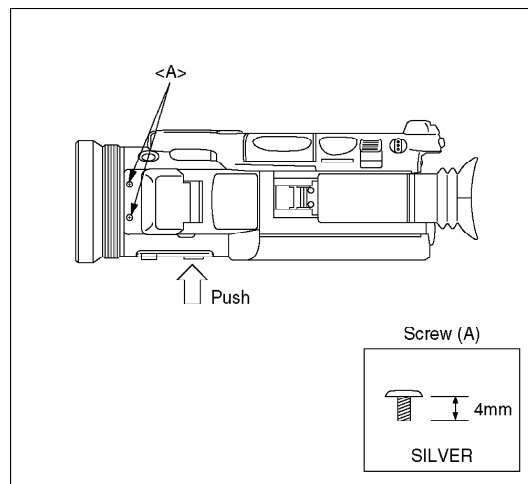


Fig. D3

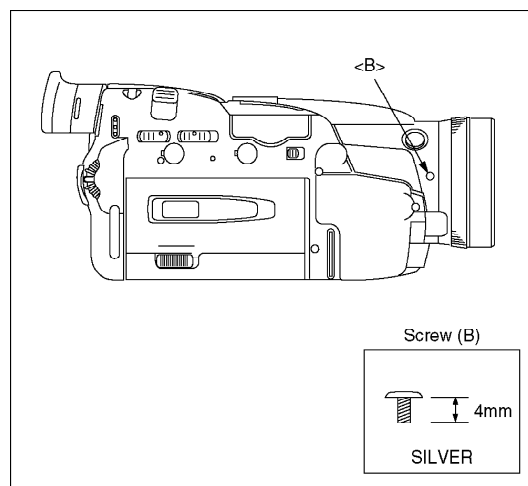


Fig. D4

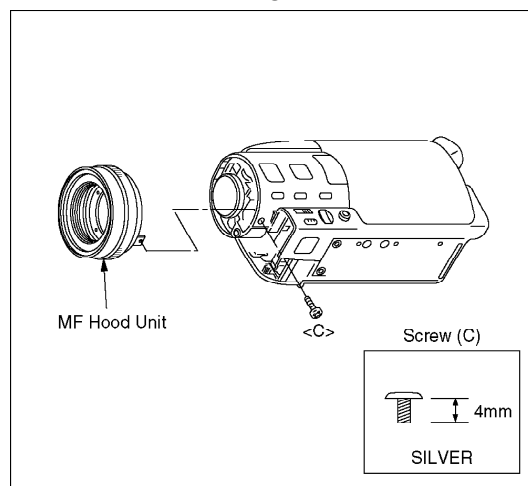


Fig. D5

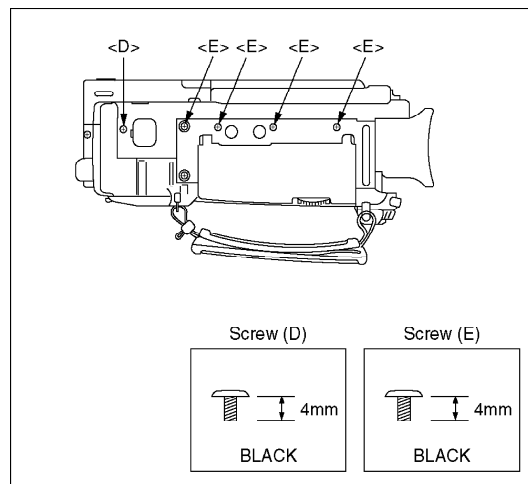


Fig. D6

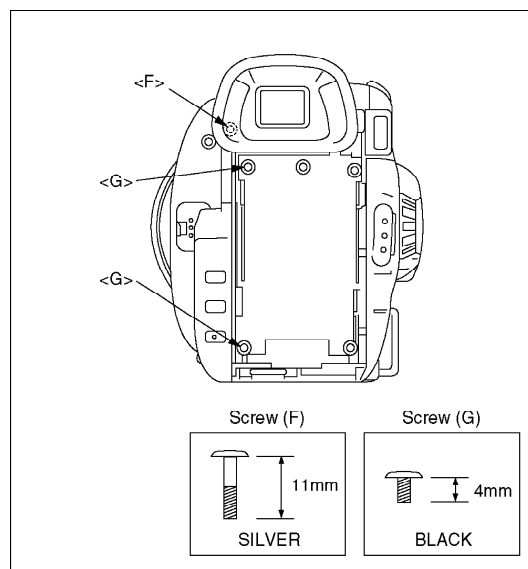


Fig. D7

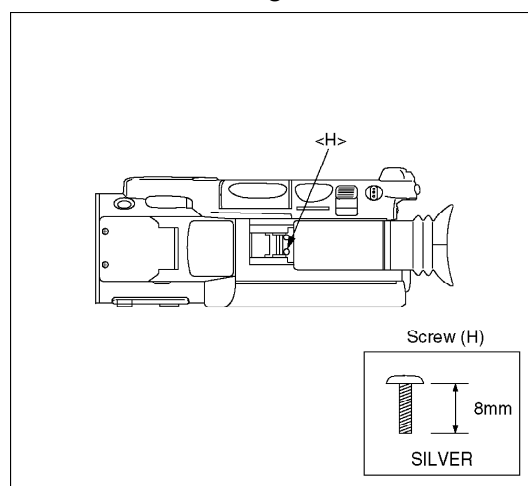


Fig. D8

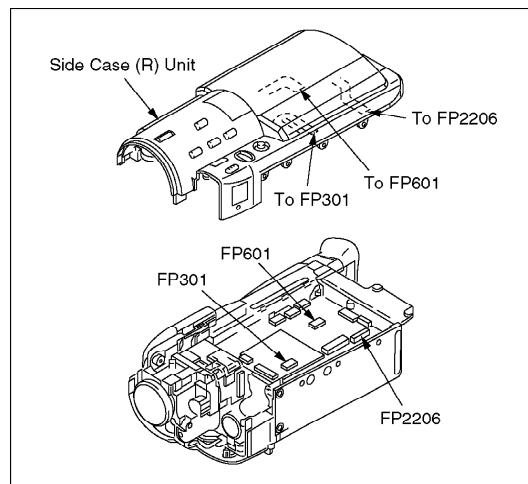


Fig. D9

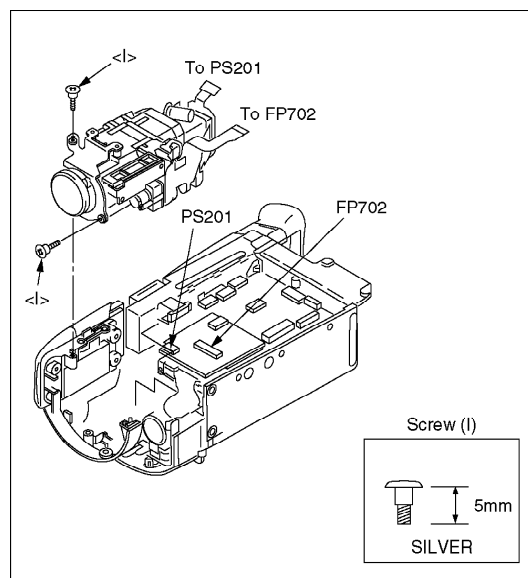


Fig. D10

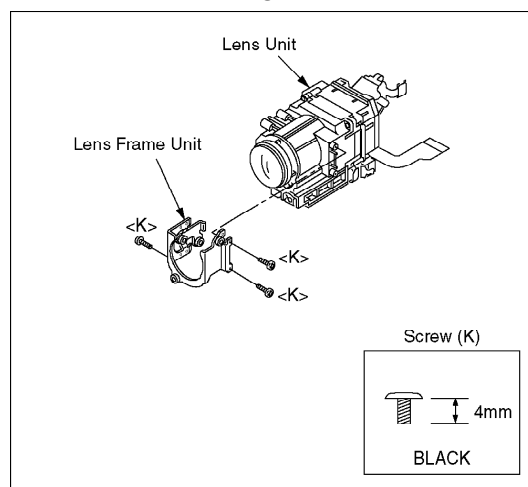


Fig. D11

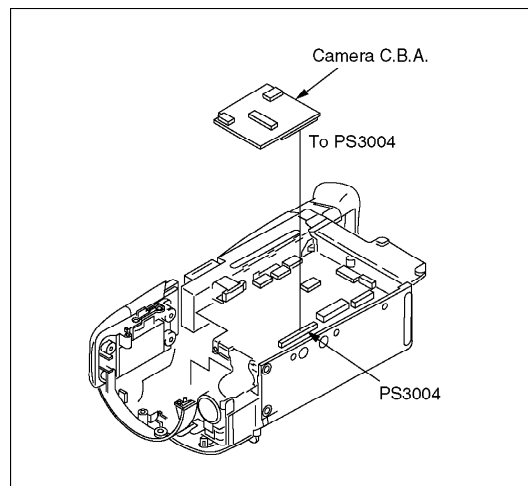


Fig. D12

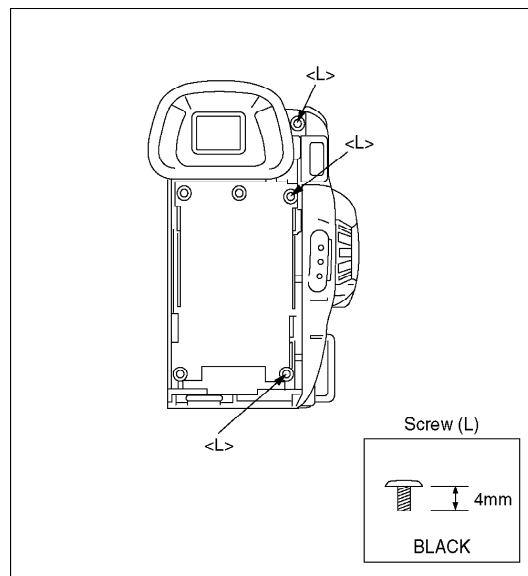


Fig. D13

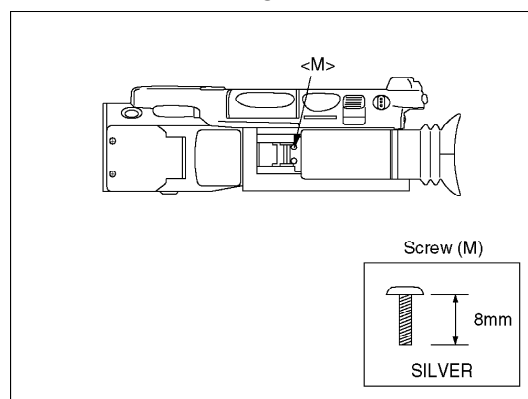


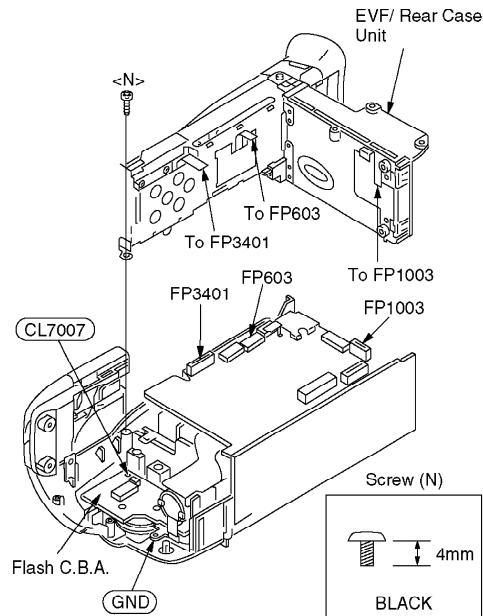
Fig. D14

CAUTION

Be sure to discharge the capacitor on Flash C.B.A. before disassembling.

CAUTION

Be careful of the high voltage circuit on Flash C.B.A. when servicing.

**Method:**

1. Prepare the 2 Resistors (ERG2SJ221:220 ohm/2w) for discharge.

Note:

Above 2 Resistors may be substituted with equivalent type.

2. Make short circuit using 2 Resistors between CL7007 and GND for 3 seconds as follows.
3. After discharging, confirm that the capacitor voltage is sufficiently lowered using a voltmeter.

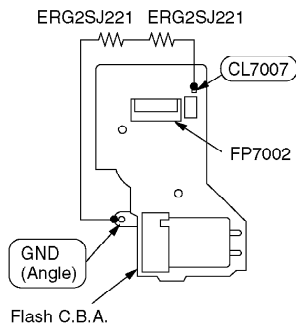


Fig. D15

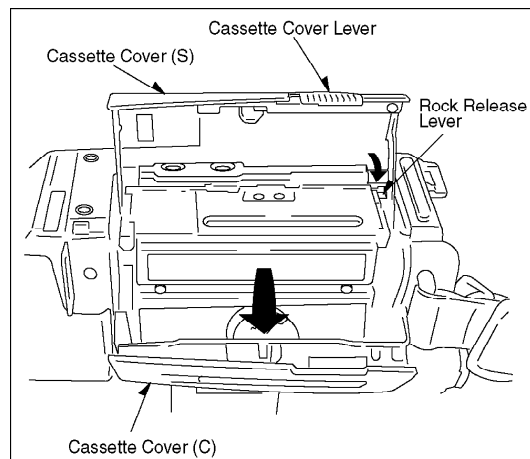


Fig. D16

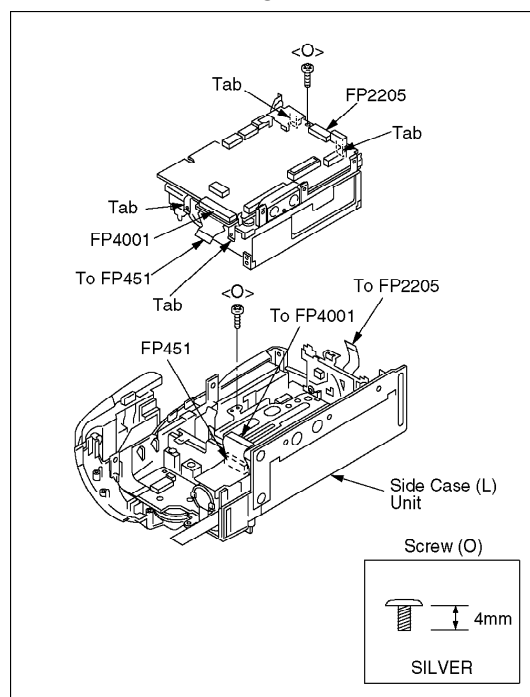


Fig. D17

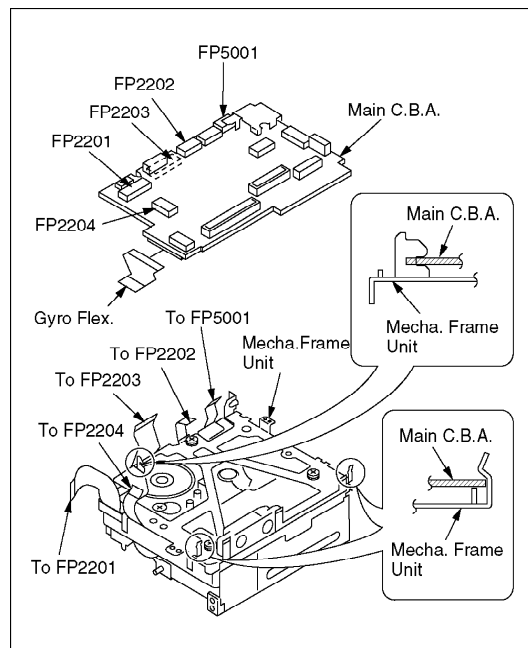


Fig. D18

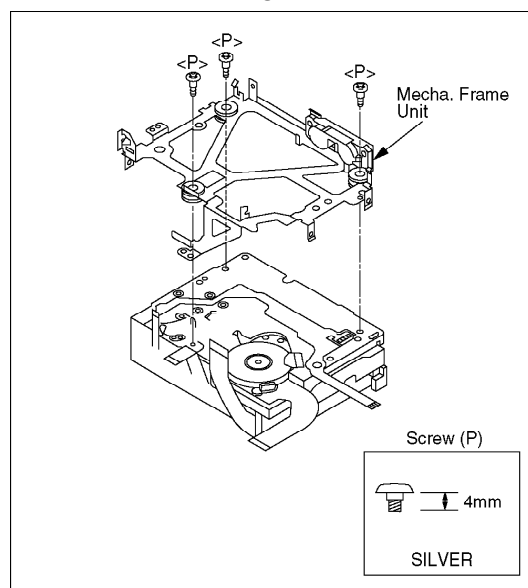


Fig. D19

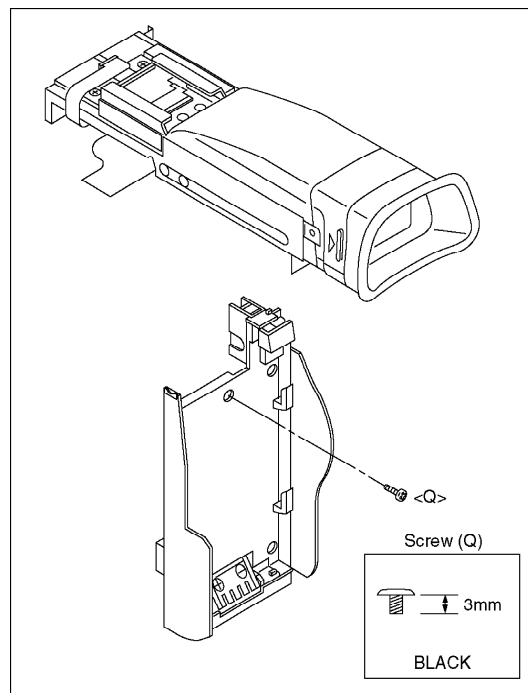


Fig. D20

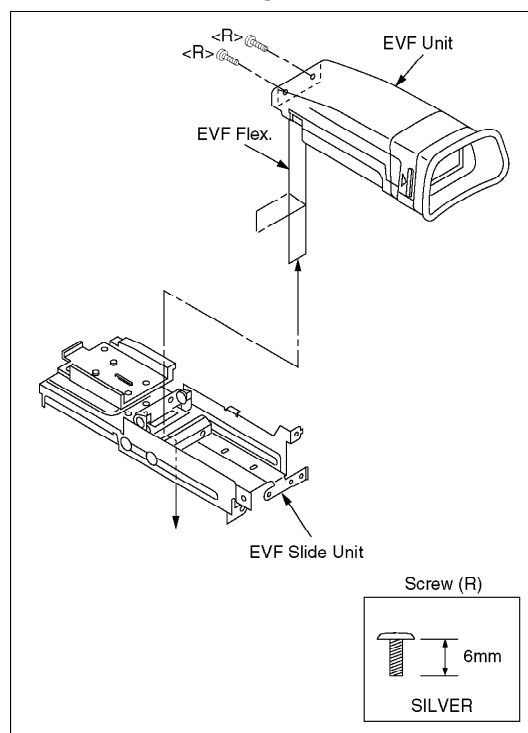


Fig. D21

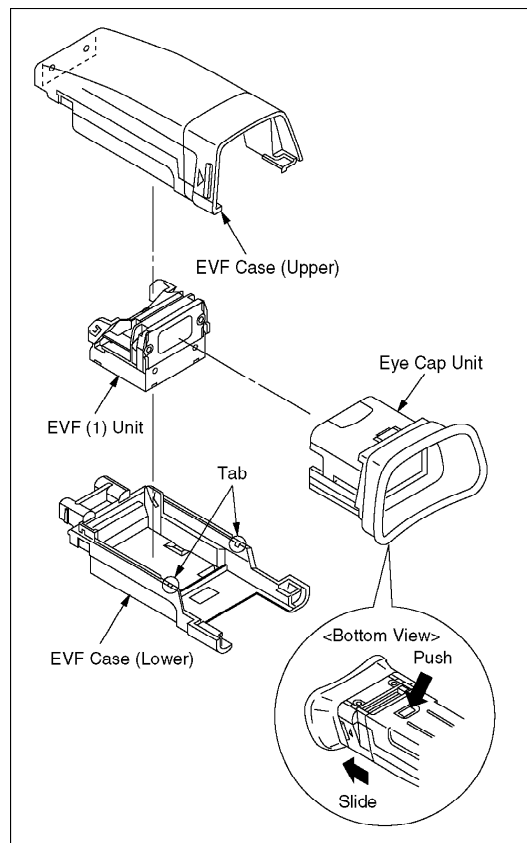


Fig. D22

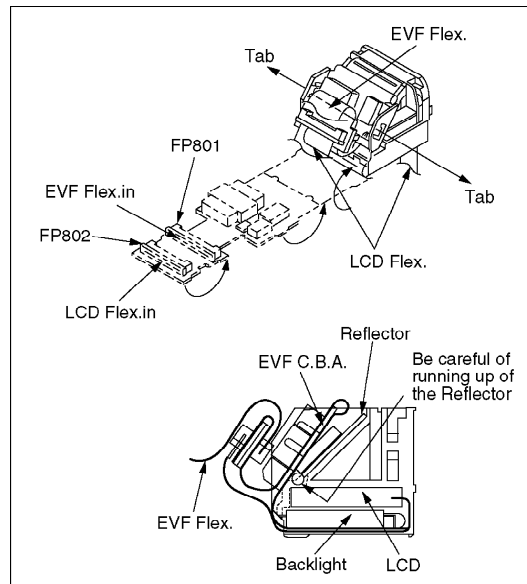


Fig. D23

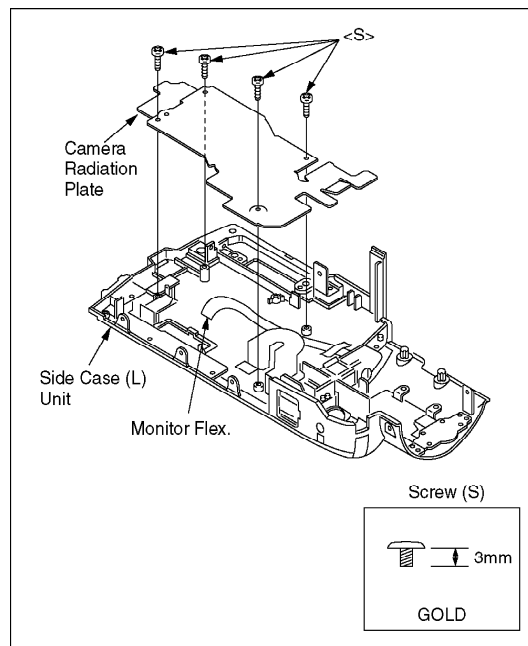


Fig. D24

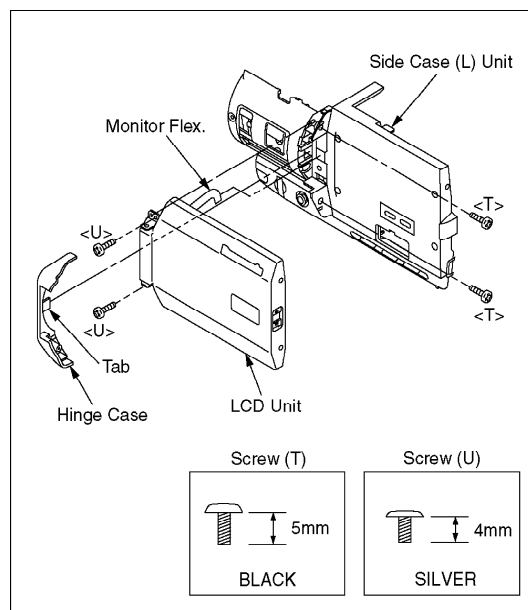


Fig. D25

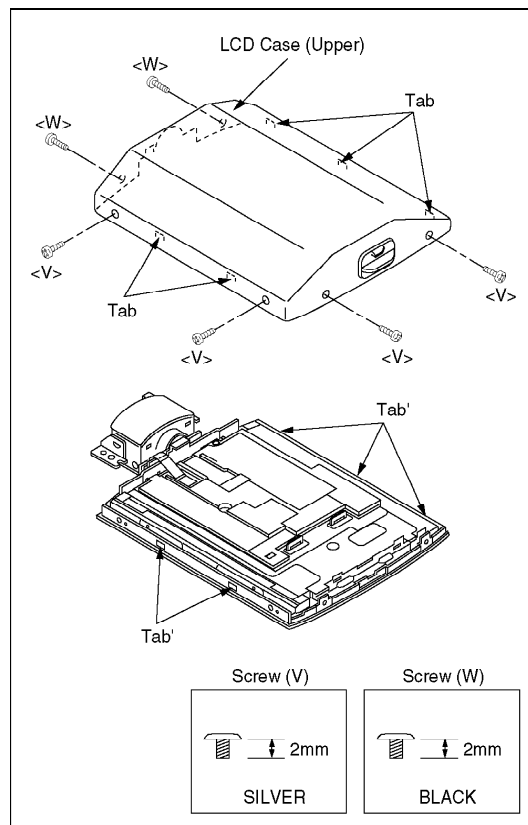


Fig. D26

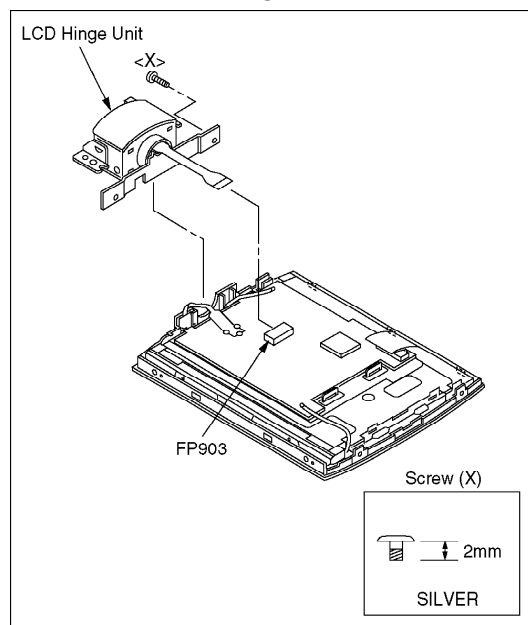
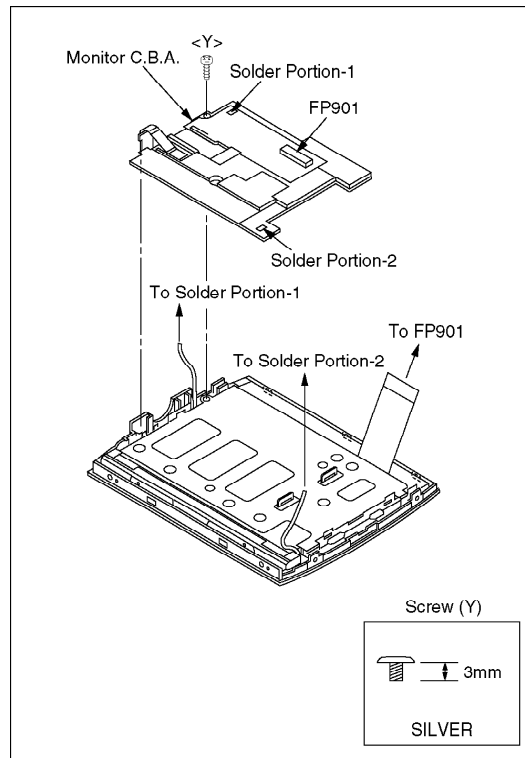


Fig. D27



8.3. DISASSEMBLY PROCEDURES OF CAMERA LENS UNIT

The following flowchart describes order or steps for removing the Camera lens unit and certain printed circuit boards in order to make access to the item needing service. / To reassemble the unit follow the steps in reverse order.

Fig. L1

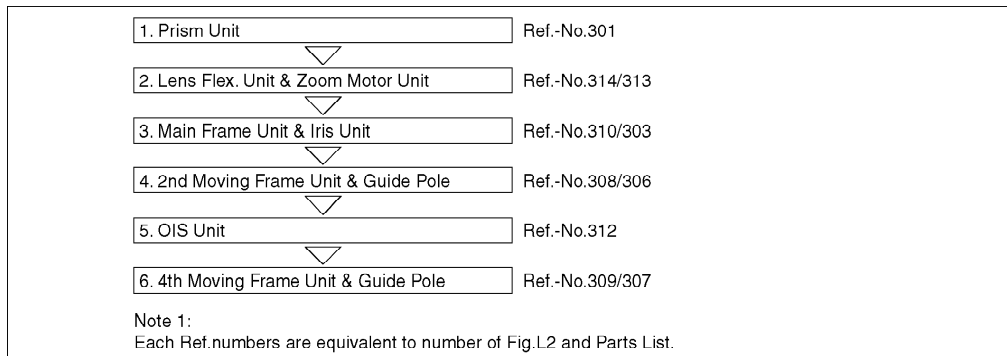
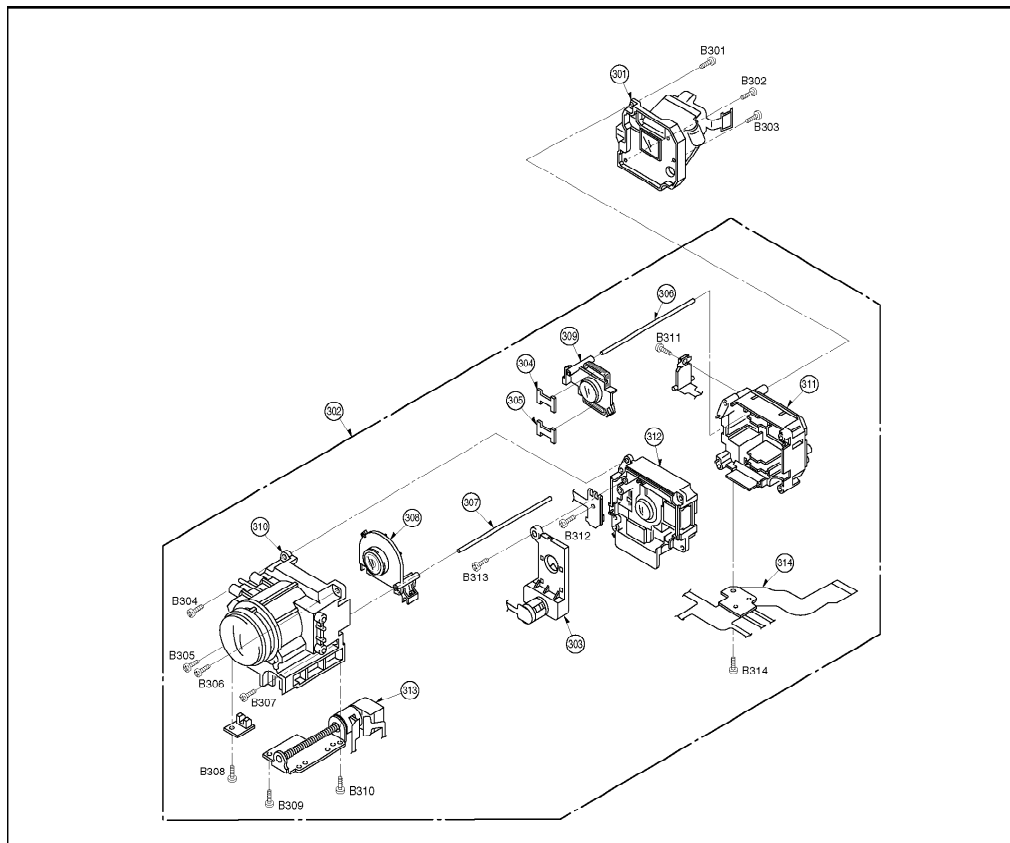


Fig. L2



9. ABBREVIATIONS

10. WAVEFORM TABLE

11. SCHEMATIC DIAGRAMS

11.1. OVERALL SCHEMATIC DIAGRAM

11.2. INTERCONNECTION SCHEMATIC DAIGRAM

11.3. SIDE CASE R UNIT (VTR OPERATION FLEX.) SCHEMATIC DIAGRAM

11.4. SIDE CASE R UNIT (CAMERA OPERATION FLEX.) SCHEMATIC DIAGRAM

11.5. SD/SHOE FLEX.CARD SCHEMATIC DIAGRAM

11.6. S/S POWER FLEX. SCHEMATIC DIAGRAM

11.7. ZOOM UNIT SCHEMATIC DIAGRAM

11.8. GRIP FLEX. CARD SCHEMATIC DIAGRAM

11.9. GRIP SCHEMATIC DIAGRAM

11.10. FLASH FLEX. CARD SCHEMATIC DIAGRAM

11.11. EVF FLEX. CARD SCHEMATIC DIAGRAM

11.12. FLASH & SUB REC SCHEMATIC DIAGRAM

11.13. FRONT SCHEMATIC DIAGRAM

11.14. MIC UNIT SCHEMATIC DIAGRAM

11.15. GYRO SCHEMATIC DIAGRAM

11.16. MONITOR & HALL SENSOR FLEX. SCHEMATIC DIAGRAM

12. CIRCUIT BOARD ASSEMBLIES

12.1. FLASH C.B.A.

12.2. SUB REC C.B.A.

12.3. MIC UNIT

12.4. FRONT C.B.A.

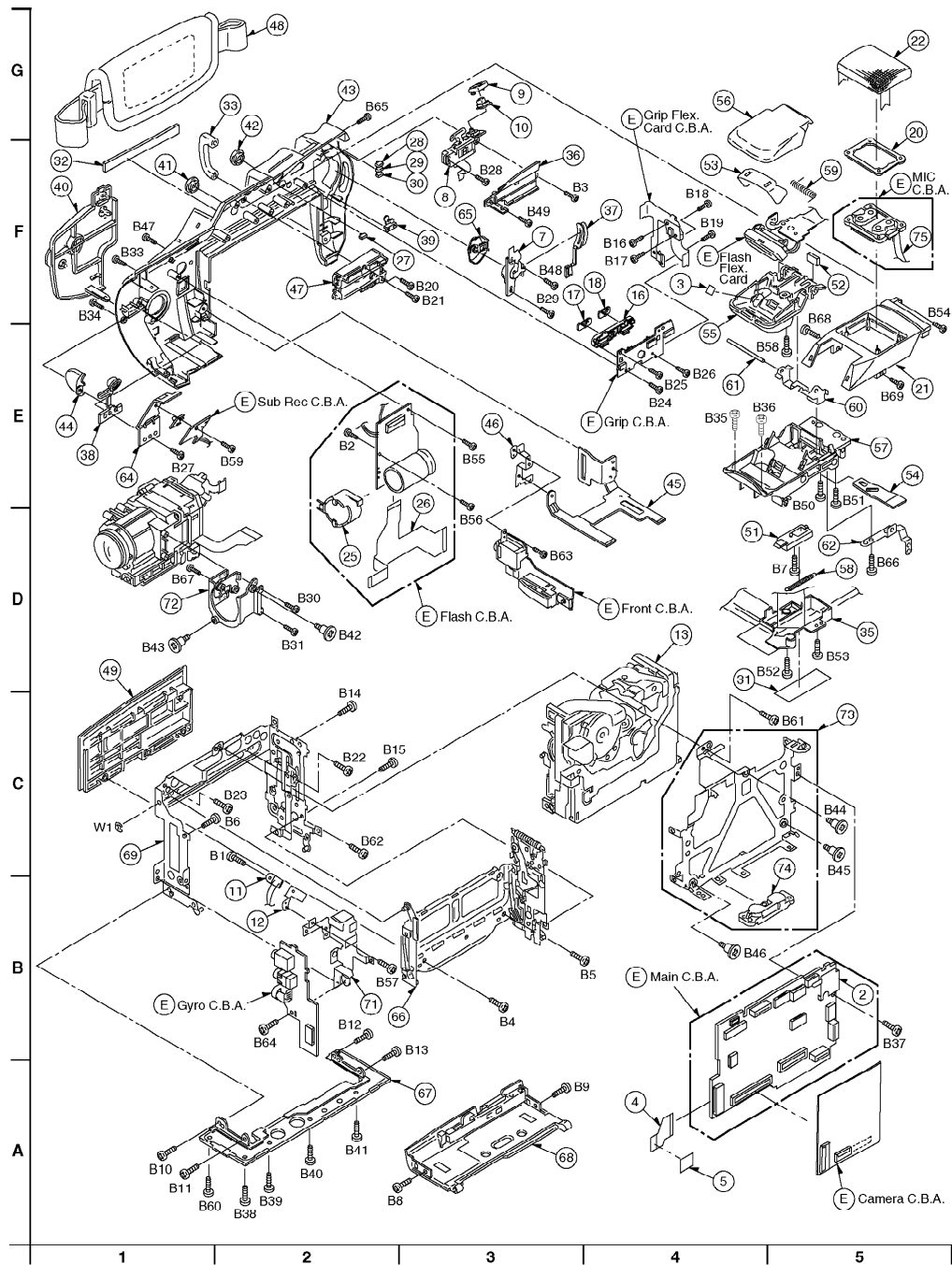
12.5. GYRO C.B.A.

12.6. MONITOR C.B.A.

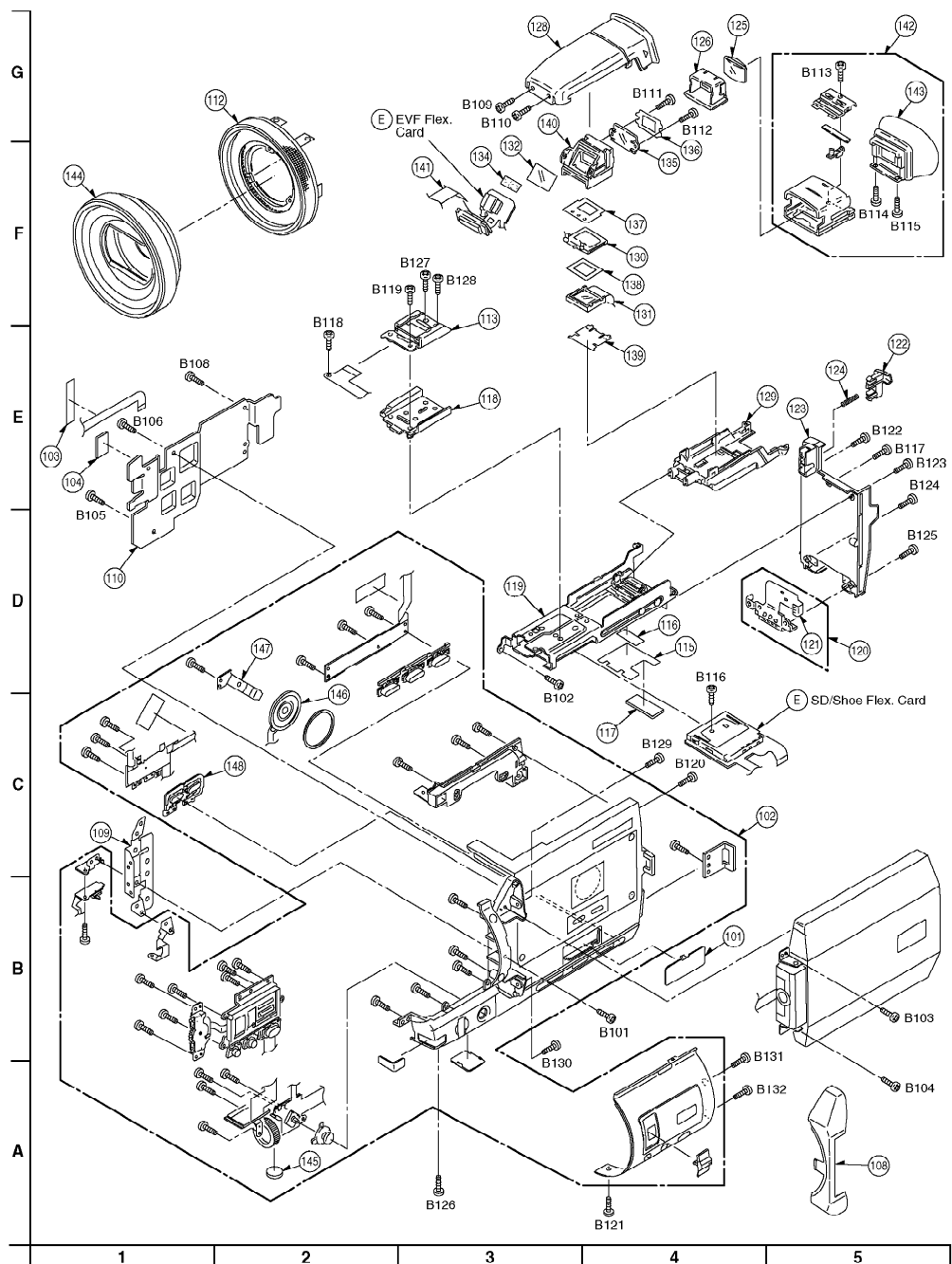
12.7. GRIP C.B.A.

13. EXPLODED VIEWS

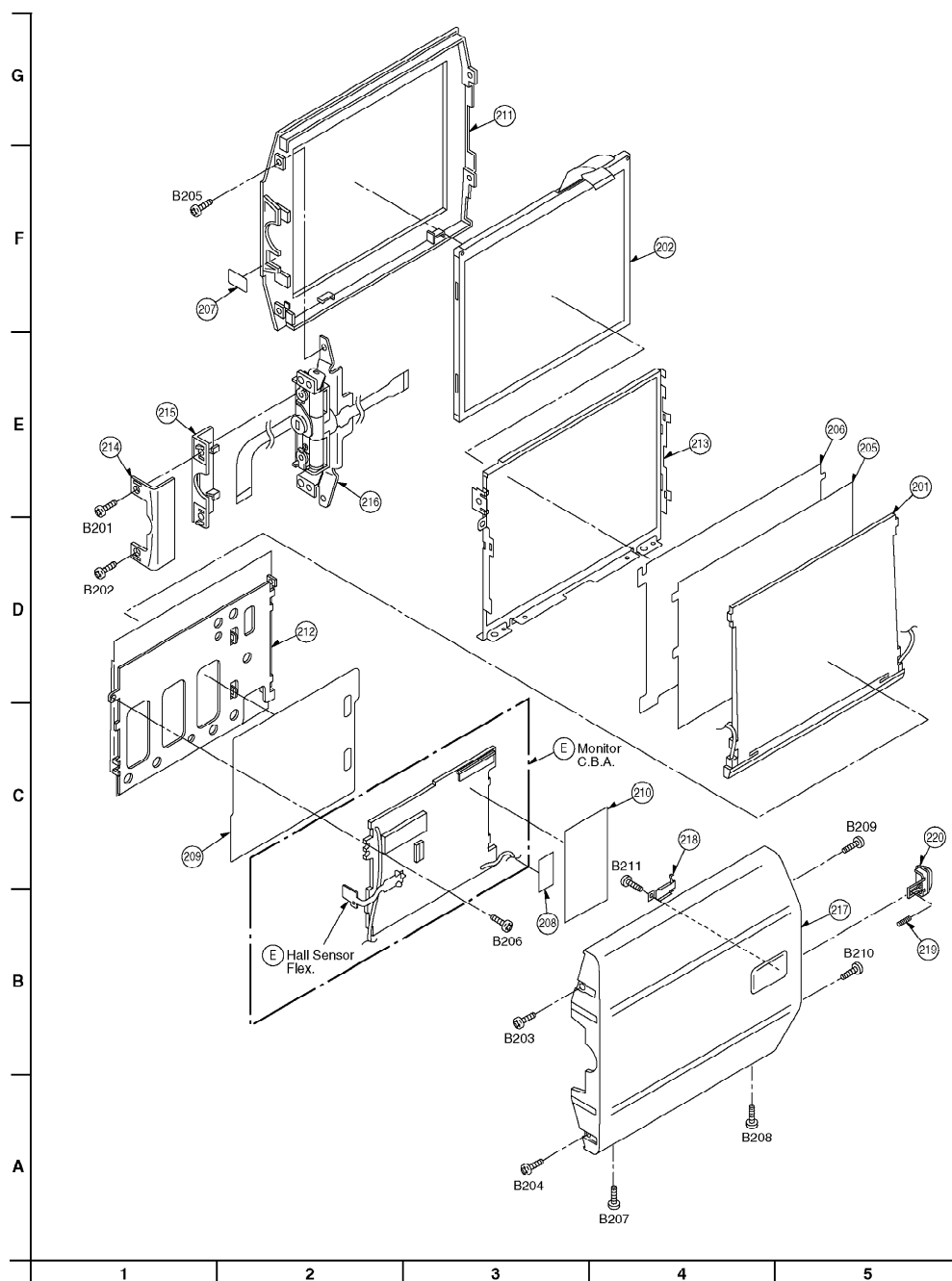
13.1. FRAME & CASING SECTION (1)



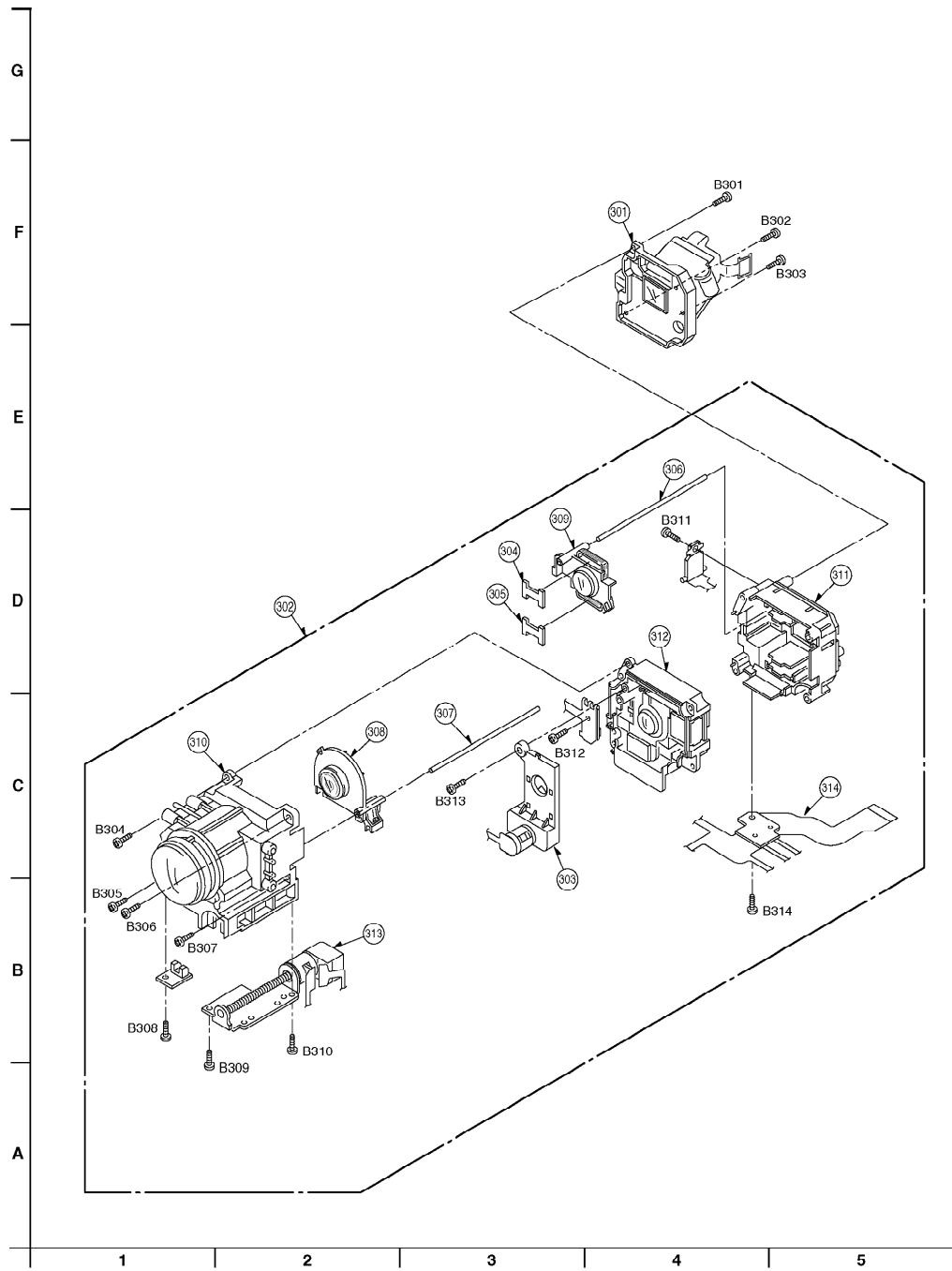
13.2. FRAME & CASING SECTION (2)



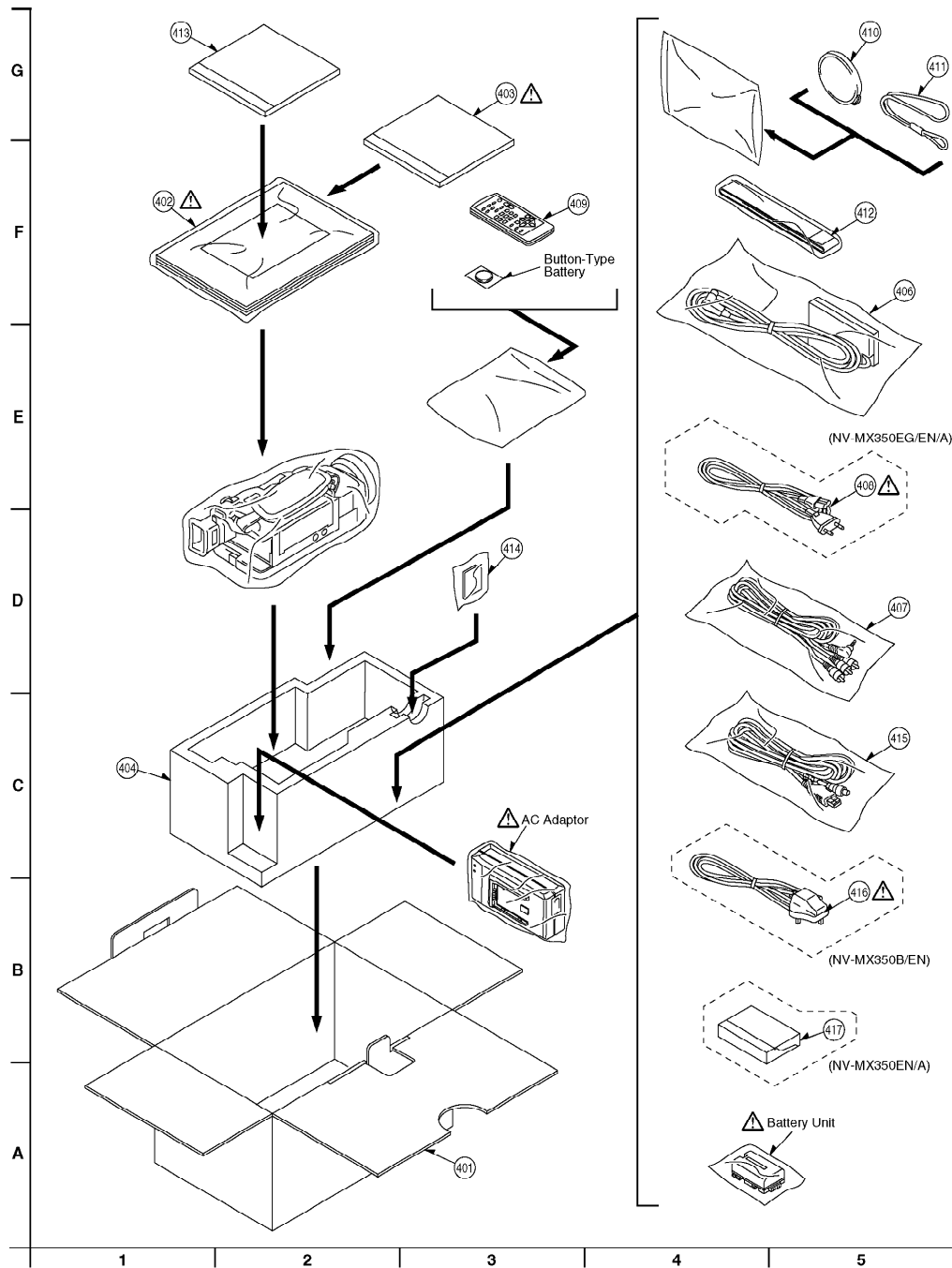
13.3. LCD SECTION



13.4. CAMERA LENS SECTION



13.5. PACKING PARTS & ACCESSORIES SECTION



14. REPLACEMENT PARTS LIST

14.1. FRAME & CASING SECTION (1) PARTS LIST

Notes: 1. *Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark $\triangle$ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
<u>2</u>	VSC5090	HEAD AMP SHIELD CASE	
<u>3</u>	VGQ6479	SENSOR SHEET	
<u>4</u>	VWJ1490	GYRO FLEX.	
<u>5</u>	VGQ6460	TAPE	
<u>7</u>	N9ZZ00000072	S/S POWER FLEX.	
<u>8</u>	N9ZZ00000026	ZOOM U.	
<u>9</u>	VGQ5665	PHOTO BUTTON GUIDE	
<u>10</u>	VGU8416	PHOTO BUTTON	
<u>11</u>	VEK8778	DEW SENSOR U.	
<u>12</u>	VMP6966	DEW SENSOR ANGLE	
<u>13</u>	VXY1626	MECHA. U.	
<u>16</u>	VGQ6344	MODE SELECT HOLDER	
<u>17</u>	VGU8937	CARD MODE SELECT KNOB A	
<u>18</u>	VGU8938	MODE SELECT KNOB B	
<u>20</u>	VGQ6352	DUMPER PRESS PIECE	
<u>21</u>	VKM5855	MIC CASE	
<u>22</u>	VYQ2255	MIC NET U.	
<u>25</u>	VGQ6362	CAPACITOR HOLDER	
<u>26</u>	VWJ1509	FRONT FLEX.	
<u>27</u>	VGL0952	PANEL LIGHT (SD)	
<u>28</u>	VGL0956	PANEL LIGHT	
<u>29</u>	VGL0956	PANEL LIGHT	
<u>30</u>	VGL0956	PANEL LIGHT	
<u>31</u>	VGQ6633	FLEX. PRESS SHEET	
<u>32</u>	VGQ5325	SOUNDPROOFING SHEET (L)	
<u>33</u>	VGQ5851	GRIP BELT PIECE	
<u>35</u>	VGQ6363	FLEX. PRESS PIECE	
<u>36</u>	VGQ6381	(L) COVER	
<u>37</u>	VGU8422	S/S BUTTON	
<u>38</u>	VGU8940	SUB REC BUTTON	
<u>39</u>	VGU8945	RESET BUTTON	
<u>40</u>	VKF3414	JACK COVER	
<u>41</u>	VKF3415	MECHA. ADJ. PIECE	
<u>42</u>	VKF3415	MECHA. ADJ. PIECE	
<u>43</u>	VYK0F85	SIDE CASE (L)	
<u>44</u>	VKW2952	IR SENSOR WINDOW	
<u>45</u>	VMP6968	GRIP BELT ANGLE	
<u>46</u>	VSC5285	S TERMINAL EARTH PLATE	
<u>47</u>	VXA7307	SD CARD HOLDER U.	
<u>48</u>	VYC0833	GRIP BELT	
<u>49</u>	VYK0E27	CASSETTE COVER U.	
<u>51</u>	VGQ6251	LOCK LEVER	
<u>52</u>	VGQ6326	CUSHION	
<u>53</u>	VGQ6338	INSULATION BARRIER	
<u>54</u>	VGU9019	FLASH OPEN BUTTON	
<u>55</u>	VKM5668	FLASH CASE (LOWER)	
<u>56</u>	VKM5720	FLASH CASE (UPPER)	
<u>57</u>	VKM5722	FLASH BASE	
<u>58</u>	VMB3556	FLASH OPEN SPRING	
<u>59</u>	VMB3557	POP SPRING	
<u>60</u>	VMP6903	BASE ANGLE	
<u>61</u>	VMS7027	BASE SHAFT	
<u>62</u>	VSC5334	FLASH EARTH PLATE	
<u>64</u>	VMP6967	SUB REC FRAME	

Ref. No.	Part No.	Part Name & Description	Remarks
65	VYQ1857	POWER BUTTON U.	
66	VXA6637	OUT HOLDER U.	
67	VYK0A20	BOTTOM FRAME U.	
68	VYK0E26	BOTTOM COVER U.	
69	VYQ2216	MAIN FRAME (1) U.	
71	VMP6969	JACK FRAME	
72	VYK0E35	LENS FRAME U.	
73	VYQ2212	MECHA FRAME U.	
74	VMD3345	TRIPOD FRAME	
75	VWJ1511	MIC FLEX.	
B1	XQN2+B2FZ	SCREW	
B2	XQN16+BJ2	SCREW	
B3	VHD1365	SCREW	
B4	VHD1384	SCREW	
B5	VHD1384	SCREW	
B6	VHD1393	SCREW	
B7	VHD1152	SCREW	
B8	VHD1376	SCREW	
B9	VHD1376	SCREW	
B10	XQN16+B2FN	SCREW	
B11	XQN16+B2FN	SCREW	
B12	XQN16+B2FN	SCREW	
B13	XQN16+B2FN	SCREW	
B14	XQS16+A2	SCREW	
B15	XQS16+A2	SCREW	
B16	XQN14+B12	SCREW	
B17	XQN14+B12	SCREW	
B18	XQN14+B12	SCREW	
B19	XQN14+B12	SCREW	
B20	XQN16+BJ3FN	SCREW	
B21	XQN16+BJ3FN	SCREW	
B22	XQN16+BJ4FZ	SCREW	
B23	XQN16+BJ3FN	SCREW	
B24	XQN16+BJ3FN	SCREW	
B25	XQN16+BJ3FN	SCREW	
B26	XQN16+BJ3FN	SCREW	
B27	XQN16+BJ5FZ	SCREW	
B28	XQN16+BJ6FN	SCREW	
B29	XQN16+BJ6FN	SCREW	
B30	XQN16+BJ4FZ	SCREW	
B31	XQN16+BJ4FZ	SCREW	
B33	XQN16+B6FZ	SCREW	
B34	XQN16+B4FN	SCREW	
B35	XQN16+B4FN	SCREW	
B36	XQN16+B4FN	SCREW	
B37	XQN16+B4FN	SCREW	
B38	XQN16+B4FZ	SCREW	
B39	XQN16+B4FZ	SCREW	
B40	XQN16+B4FZ	SCREW	
B41	XQN16+B4FZ	SCREW	
B42	VHD1353	SCREW	
B43	VHD1353	SCREW	
B44	VHD1133	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
B45	VHD1133	SCREW	
B46	VHD1133	SCREW	
B47	XQN16+B4FZ	SCREW	
B48	XQN16+BJ4FZ	SCREW	
B49	XQN16+BJ4FZ	SCREW	
B50	XQN16+BJ4FZ	SCREW	
B51	XQN16+BJ4FZ	SCREW	
B52	XQN16+BJ4FZ	SCREW	
B53	XQN16+B4	SCREW	
B54	XQN16+BJ4FZ	SCREW	
B55	XQN16+BJ4FZ	SCREW	
B56	XQN16+BJ4FZ	SCREW	
B57	XQN16+B4FZ	SCREW	
B58	XQN16+BJ4FZ	SCREW	
B59	XQN16+B3	SCREW	
B60	XQN16+B4FZ	SCREW	
B61	XQN16+B4FN	SCREW	
B62	XQN16+B4FZ	SCREW	
B63	XQN16+B4FZ	SCREW	
B64	XQN16+B2FN	SCREW	
B65	XQN16+BJ4FZ	SCREW	
B66	XQN16+B3FN	SCREW	
B67	XQN16+BJ4FZ	SCREW	
B68	VHD1152	SCREW	
B69	VHD1152	SCREW	
W1	XUC2FP	WASHER	

14.2. FRAME & CASING SECTION (2) PARTS LIST

Notes: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
101	VKF3413	EVF COVER	
102	N9ZZ00000133	SIDE CASE (R)(1) U.	
103	VGQ2184	TAPE	
104	VGQ6148	RADIATION PLATE CUSHION	
108	VKM5726	HINGE CASE	
109	VMP6977	HINGE FIXING PLATE	
110	VSC5342	CAMERA RADIATION PLATE	
112	VXP2171	MF U.	
113	K1FB108H0011	SHOE TERMINAL SOCKET	
115	VGQ5827	EVF FLEX. BARRIER	
116	VGQ5983	TAPE	
117	VGQ6167	EVF CUSHION	
118	VKM5719	TOP PIECE	
119	VXA7258	SVF SLIDE U.	
120	VEK9053	BATTERY CATCHER U.	
121	VWJ1425	POWER BUS FLEX.	
122	VGU8582	BATTERY LOCK BUTTON	
123	VKM5715	REAR CASE	
124	VMB3210	BATTERY LOCK SPRING	
125	VDL1220	EVF LENS	
126	VGQ5832	LENS HOLDER	
128	VKM5860	EVF CASE (UPPER)	
129	VKM5944	EVF CASE (LOWER)	
130	A2CD00000030	EVF BACK LIGHT	
131	L5BDDXH00006	EVF LCD PANEL	
132	VDL1151	EVF REFLECTOR	
134	VGQ5654	REFLECTOR CUSHION	
135	VGQ5833	EVF PROTECT COVER	
136	VGQ5835	PROTECT COVER SHEET	
137	VGQ6268	LCD MASK	
138	VGQ6269	LCD HOLD TAPE	
139	VGQ6270	LCD HOLD SHEET	
140	VKM5429	LCD HOLD PIECE	
141	VWJ1422	EVF FLEX.	
142	VYK0B67	EVF VIEW ADJ. U.	
143	VMG1408	EYE CAP	
144	VYQ2345	LENS HOOD U.	
145	VSB0407	LITHIUM BATTERY	
146	L0AA02A00014	SPEAKER U.	
147	VMP6532	SPEAKER FIXING PLATE	
148	VGU8591	MULTI BUTTON	
B101	XQN16+B3FN	SCREW	
B102	XQN16+BJ4FZ	SCREW	
B103	VHD1411	SCREW	
B104	VHD1411	SCREW	
B105	XQN16+BJ3	SCREW	
B106	XQN16+BJ3	SCREW	
B108	XQN16+BJ3	SCREW	
B109	VHD1377	SCREW	
B110	VHD1377	SCREW	
B111	XQN16+BJ4FZ	SCREW	
B112	XQN16+BJ4FZ	SCREW	
B113	XQN14+BJ3FZ	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
B114	XQN14+BJ3FZ	SCREW	
B115	XQN14+BJ3FZ	SCREW	
B116	XQN16+B16FN	SCREW	
B117	XQN16+B25FN	SCREW	
B118	XQN2+B65FN	SCREW	
B119	XQN2+B65FN	SCREW	
B120	XQN16+B11FN	SCREW	
B121	XQN16+B4FN	SCREW	
B122	XQN16+B4FZ	SCREW	
B123	XQN16+B4FZ	SCREW	
B124	XQN16+B4FZ	SCREW	
B125	XQN16+B4FZ	SCREW	
B126	XQN16+B4FZ	SCREW	
B127	VHD1527	SCREW	
B128	VHD1527	SCREW	
B129	XQN16+BJ5FN	SCREW	
B130	XQN16+BJ5FN	SCREW	
B131	VHD1490	SCREW	
B132	VHD1490	SCREW	

14.3. LCD SECTION PARTS LIST

Notes: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △, have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
201	KBLUMJ131VM	MONITOR BACKLIGHT U.	
202	L5BDDYM00004	LCD PANEL	
205	VGL0916	DIFFUSION SHEET	
206	VGL0917	POLARIZATION SHEET	
207	VGQ4758	SENSOR PROTECT SHEET	
208	VGQ5507	WIRE PROTECT SHEET	
209	VGQ5844	LCD BARRIER	
210	VGQ6644	FLEX. PROTECT SHEET	
211	VKM5727	LCD CASE (LOWER)	
212	VMP6572	C.B.A. FIXING PLATE	
213	VMP6928	LCD FRAME	
214	VGQ6361	HINGE COVER (UPPER)	
215	VGQ6468	HINGE COVER (LOWER)	
216	VXD0357	LCD HINGE (1) U.	
217	VYK0E33	LCD CASE (UPPER) U.	
218	VMP6533	LOCK PIECE FIXING PLATE	
219	VMB3457	LCD LOCK SPRING	
220	VGQ6447	LCD LOCK PIECE	
B201	VHD1451	SCREW	
B202	VHD1451	SCREW	
B203	VHD1451	SCREW	
B204	VHD1451	SCREW	
B205	XQN16+B2FN	SCREW	
B206	XQN16+B25FN	SCREW	
B207	XQN16+B25FN	SCREW	
B208	XQN16+B25FN	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
B209	XQN16+B25FN	SCREW	
B210	XQN16+B25FN	SCREW	
B211	XQS16+AJ3	SCREW	

14.4. CAMERA LENS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
301	VXQ1047	PRISM U.	
302	VXW0511	LENS U.	
303	L9ZZ00000186	IRIS U.	
304	VMA9961	SIDE YOKE	
305	VMA9961	SIDE YOKE	
306	VMS6717	GUIDE POLE	
307	VMS6717	GUIDE POLE	
308	VXP1988	2ND MOVING FRAME U.	
309	VXP1991	4TH MOVING FRAME U.	
310	VXQ0888	MAIN FRAME U.	
311	VXQ0892	MASTER FLANGE U.	
312	VXQ0972	OIS U.	
313	08S1E13F6ND	ZOOM MOTOR U.	
314	VEK9361	LENS FLEX. UNIT	
B301	XQN16+CJ5	SCREW	
B302	XQN16+CJ5	SCREW	
B303	XQN16+CJ5	SCREW	
B304	XQN16+CJ8	SCREW	
B305	XQN16+CJ8	SCREW	
B306	XQN16+CJ8	SCREW	
B307	XQN16+CJ8	SCREW	
B308	XQN16+CJ5	SCREW	
B309	XQN16+CJ5	SCREW	
B310	XQN16+CJ5	SCREW	
B311	XQN16+CJ5	SCREW	
B312	XQN16+CJ5	SCREW	
B313	XQN16+CJ5	SCREW	
B314	XQN16+CJ5	SCREW	

14.5. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
401	VPG0M78	PACKING	NV-MX350EG
401	VPG0M79	PACKING	NV-MX350B
401	VPG0M80	PACKING	NV-MX350EN/A
402	VQT9574	OPERATING INSTRUCTIONS (ENGLISH,SPANISH)	NV-MX350EG 
402	VQT9575	OPERATING INSTRUCTIONS (GERMAN,FRENCH)	NV-MX350EG 
402	VQT9576	OPERATING INSTRUCTIONS (ITALIAN,DUTCH)	NV-MX350EG 
402	VQT9577	OPERATING INSTRUCTIONS (SWEDISH,DANISH)	NV-MX350EG 
402	VQT9578	OPERATING INSTRUCTIONS (ENGLISH)	NV-MX350B 
402	VQT9580	OPERATING INSTRUCTIONS (RUSSIAN,ARABIC)	NV-MX350EN 
402	VQT9581	OPERATING INSTRUCTIONS (CHINESE,ENGLISH)	NV-MX350EN 
402	VQT9579	OPERATING INSTRUCTIONS (ENGLISH)	NV-MX350A 
403	VQT9859	OPERATING INSTRUCTIONS FOR PC KIT (GERMAN,FRENCH,ITALIAN, DUTCH,ENGLISH,SPANISH, SWEDISH,DANISH)	NV-MX350EG 
403	VQT9440	OPERATING INSTRUCTIONS FOR PC KIT (ENGLISH)	NV-MX350B 
403	VQT9441	OPERATING INSTRUCTIONS FOR PC KIT (CHINESE,ENGLISH,RUSSIAN, ARABIC)	NV-MX350EN 
403	VQT9442	OPERATING INSTRUCTIONS FOR PC KIT (ENGLISH)	NV-MX350A 
404	VPN5699	CUSHION	
406	VEK8925	DC CABLE U.	K2GJ2DZ00011
407	K2KC4CB00002	AV CABLE	
408	VJA0664	AC CORD	K2CR2DA00004 NV-MX350EG/EN 
408	VJA0754	AC CORD	K2CJ2DA00002 NV-MX350A 
409	N2QAEC000003	REMOTE CONTROLLER U.	
410	VYP8407	HOOD CAP U.	
411	VGQ2750	HOOD STRUP	
412	VFC3506A	SHOULDER BELT	
413	VFF0120-S	CD-ROM FOR PC KIT	
414	RP-SD008BVE0	SD CARD	
415	VFA0363	USB CABLE U.	
416	VJA0940	AC CORD	K2CT3DA00003 NV-MX350B/EN 
417	VFK1451	HEAD CLEANING CASSETTE	NV-MX350EN/A

14.6. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uF). P=10uF.
4. The P.C. Board units marked with  show below the main assembled parts.
5. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP03F95F	MAIN C.B.A.	(RTL)
■	VEP23566A	CAMERA C.B.A.	(RTL)
■	VEP26257A	MONITOR C.B.A.	(RTL)
■	VEP04810A	GYRO C.B.A.	(RTL)
■	VEP07A52A	FLASH C.B.A.	(RTL)
■	VEP04807A	FRONT C.B.A.	(RTL)
■	VEK9575	MIC UNIT	(RTL)
■	VEP06E28A	GRIP C.B.A.	(RTL)
■	VEP07A46A	FLASH FLEX. CARD	(RTL)
■	VEP28285A	EVF C.B.A.	(RTL)
■	VEK9360	SUB REC C.B.A.	(RTL)
■	VEP06E30A	GRIP FLEX. CARD	
■	VEP000V7A	SD SHOE FLEX. CARD	(RTL)
■	VEP06E29A	HALL SENSOR FLEX. CARD	(RTL)
■	VEP26257A	MONITOR C.B.A.	(RTL)
C901	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C902	ECST0GY476Z	T.CAPACITOR CH 4V 47U	F3F0G476A009
C903	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C905	ECUM1C106VB	C.CAPACITOR CH 16V 10U	
C906	ECUM1C106VB	C.CAPACITOR CH 16V 10U	
C907	F3F0J335A008	TANTALUM CAPACITOR	
C908	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C909	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C910	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C911	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C912	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C913	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C914	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C915	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
C916	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C917	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C918	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C919	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C923	ECUX1H471GCV	C.CAPACITOR CH 50V 470P	
C925	ECST1AY106ZR	T.CAPACITOR CH 10V 10U	ECST1AY106R
C930	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C931	ECUX1H330JCQ	C.CAPACITOR CH 50V 33P	
C932	ECUX1H221JCQ	C.CAPACITOR CH 50V 220P	
C933	ECUX1C474KBN	C.CAPACITOR CH 16V 0.47U	ECJ2YB1C474K
C934	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C935	ECUX1C682KBQ	C.CAPACITOR CH 16V 6800P	
C936	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C937	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C938	ECUX1H101JCQ	C.CAPACITOR CH 50V 100P	
C939	ECUX1H331GCV	C.CAPACITOR CH 50V 330P	
C940	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	
C941	ECUX1H100CCQ	C.CAPACITOR CH 50V 10P	
C942	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	F1J1A1050002

Ref. No.	Part No.	Part Name & Description	Remarks
C943	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C944	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C945	ECUX1E332KBQ	C.CAPACITOR CH 25V 3300P	
C946	ECUM1C106VB	C.CAPACITOR CH 16V 10U	
C947	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
C948	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
C949	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C950	ECUV1C105KBN	C.CAPACITOR CH 16V 1U	F1J1C105A091
C952	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
D901	MA338	DIODE	MA2X338
D902	MA6S121	DIODE	MA6Z121
D903	MA132WA	DIODE	MA3S132D
D904	MA159A	DIODE	MA4X159A
D905	1SS388	DIODE	B0JEEE000001
D906	1SS388	DIODE	B0JEEE000001
D907	MA111	DIODE	MA2J111
D908	MA8027-L	DIODE	MAZ80270L
D909	MA8043-M	DIODE	MAZ80430M
D910	02DZ6.2YTPH3	DIODE	B0BC6R100014
FP901	K1MN24B00068	CONNECTOR	K1MN24B00069
FP903	K1MN25B00035	CONNECTOR	
IC901	C0HBA0000071	IC	
IC903	AHC1G04DCK	IC	C0JBAB000350
IC904	SN32461DCK	IC	C0JBAB000391
IC905	SN74LV04APW	IC	C0JBAB000247
L901	VLQ0807K100	COIL 10UH	G1C100K00024
L902	VLQ0807K100	COIL 10UH	G1C100K00024
L903	VLQ0807K100	COIL 10UH	G1C100K00024
L904	VLQ0807K100	COIL 10UH	G1C100K00024
L905	G1C100MA0031	CHIP INDUCTOR	G1C100MA0030
L907	VLQ0426J3R3	COIL 3.3UH	G1C3R3J00009
Q901	2SA1832FY	TRANSISTOR	
Q902	2SK3065T100	TRANSISTOR	B1CFNG000001
Q903	XP4601	TRANSISTOR-TRANSISTOR	XP04601
Q904	XP1501	TRANSISTOR-TRANSISTOR	XP01501
Q905	2SA1036	TRANSISTOR	
Q906	XP4601	TRANSISTOR-TRANSISTOR	XP04601
Q907	XP4601	TRANSISTOR-TRANSISTOR	XP04601
Q908	XP4601	TRANSISTOR-TRANSISTOR	XP04601
QR901	DTC144TH	DIGITAL TRANSISTOR	
QR902	DTC144TH	DIGITAL TRANSISTOR	
QR903	RN1107F	TRANSISTOR-RESISTOR	
QR904	UN9214J	TRANSISTOR-RESISTOR	
R901	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R902	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R903	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	

Ref. No.	Part No.	Part Name & Description	Remarks
R906	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R907	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R908	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R909	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R910	ERJ2GEJ332X	M.RESISTOR CH 1/16W 3.3K	ERJ2RMJ332X
R911	ERJ2GEJ332X	M.RESISTOR CH 1/16W 3.3K	ERJ2RMJ332X
R912	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	
R913	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	
R914	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R920	ERJ2GEJ332X	M.RESISTOR CH 1/16W 3.3K	ERJ2RMJ332X
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	ERJ2GEJ272X
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	
R926	ERJ2GEJ332X	M.RESISTOR CH 1/16W 3.3K	ERJ2RMJ332X
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	ERJ2GEJ124X
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R929	ERJ2RHD273X	M.RESISTOR CH 1/16W 27K	
R930	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R931	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R933	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	
R935	ERJ2RHD273X	M.RESISTOR CH 1/16W 27K	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	ERJ2GEJ182X
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	ERJ2GEJ153X
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R942	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R943	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R944	ERJ2GEJ394X	M.RESISTOR CH 1/16W 390K	ERJ2RMJ394X
R945	ERJ2RHD273X	M.RESISTOR CH 1/16W 27K	
R946	ERJ2RHD823X	M.RESISTOR CH 1/16W 82K	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	
R952	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R953	ERJ3GEYJ823V	M.RESISTOR CH 1/16W 82K	D0GB823JA002
R954	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R955	ERJ3RBD333V	M.RESISTOR CH 1/16W 33K	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	ERJ3RBD101V
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	ERJ2GEJ153X
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	ERJ2GEJ272X
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	ERJ2GEJ153X
R962	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R964	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R965	ERJ2GEJ563X	M.RESISTOR CH 1/16W 56K	
R966	ERJ2GEJ563X	M.RESISTOR CH 1/16W 56K	

Ref. No.	Part No.	Part Name & Description	Remarks
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R968	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R969	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R970	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	
R971	ERJ3GEYJ335V	M.RESISTOR CH 1/16W 3.3M	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	ERJ2GEJ224X
R973	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	
R974	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	
R976	ERJ3RBD681V	M.RESISTOR CH 1/16W 680	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	
R979	ERJ3GEYJ224V	M.RESISTOR CH 1/16W 220K	D0GB224JA002
R985	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	ERJ2GEJ182X
R986	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	ERJ2GEJ182X
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
T901	ETJ09K44AZ	CHIP TRANSFORMER	
T902	EFTU21R203	TRANSFORMER	
■	VEP04810A	GYRO C.B.A.	(RTL)
C451	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C453	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C455	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C456	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C458	ECUM0J106VBM	C.CAPACITOR CH 6.3V 10U	
C459	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C460	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C461	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C462	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C464	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C465	ECUM0J106VBM	C.CAPACITOR CH 6.3V 10U	
C467	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C468	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C470	ECUX0J105KBV	C.CAPACITOR CH 6.3V 1U	
C471	ECUM0J106VBM	C.CAPACITOR CH 6.3V 10U	
C472	ECUM0J106VBM	C.CAPACITOR CH 6.3V 10U	
C480	ECST0GY226Z	T.CAPACITOR CH 4V 22U	
C481	ECST0GY476Z	T.CAPACITOR CH 4V 47U	F3F0G476A009
C482	ECST0GY226Z	T.CAPACITOR CH 4V 22U	
C2502	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
C2503	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
C2504	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
C2506	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	ECJ1XB1C104K
C2507	ECUX0J105KBV	C.CAPACITOR CH 6.3V 1U	
C2508	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C2509	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C2510	F1J0J475A006	CERAMIC CAPACITOR	
C2511	F3F0J4760002	TANTALUM CAPACITOR	
C2512	F1J0J475A006	CERAMIC CAPACITOR	
C2513	ECUX1A473KBQ	C.CAPACITOR CH 10V 0.047U	
C4003	ECUX1E472KBQ	C.CAPACITOR CH 25V 4700P	

Ref. No.	Part No.	Part Name & Description	Remarks
C4004	ECUX1E472KBQ	C.CAPACITOR CH 25V 4700P	
D2501	MA2S728	DIODE	
FP451	VJS3971D027	CONNECTOR (FEMALE) 27P	K1MN27B00008
IC451	TC7W66FU	IC	
IC452	NJM3403AV	IC	C0ABCA000041
IC453	NJM2143R	IC	C0ABAA000045
IC480	L2ES00000006	IC	
IC481	L2ES00000005	IC	
IC2501	C0ZBZ0000540	IC	
IC2502	MM1385ENRE	IC	C0CBABC00077
IC2503	NJM2407R	IC	C0BZBB000001
JK2501	VJJ0552	JACK (4-PIN)	K2HC104E0002
JK2502	K2HZ108B0004	8-PIN JACK	
JK4001	VJJ0668	AV JACK (4-PIN)	K2HC106B0005
L451	VLQ0911K100	COIL 10UH	G1C100K00019
L452	VLQ0911K100	COIL 10UH	G1C100K00019
L480	VLQ0911K100	COIL 10UH	G1C100K00019
L2501	VLQ0855M4R7	COIL 4.7UH	G1C4R7M00016
L2502	VLQ0911K100	COIL 10UH	G1C100K00019
LB2503	VLF1315A102	CHIP BEAD	J0JHC0000015 
LB2504	VLF1315A102	CHIP BEAD	J0JHC0000015 
LB2505	VLP0357A601	CHIP BEAD	
LB2506	J0JHC0000032	FILTER	
LB2507	VLP0357A601	CHIP BEAD	
LB2508	VLP0357A601	CHIP BEAD	
LB2509	VLP0357A601	CHIP BEAD	
LB4002	VLP0329A121	CHIP BEAD	
LB4003	VLP0330A102	CHIP BEAD	J0JAC0000011
LB4005	VLF1315A102	CHIP BEAD	J0JHC0000015 
LB4006	VLF1315A102	CHIP BEAD	J0JHC0000015 
LB4007	VLP0330A102	CHIP BEAD	J0JAC0000011
QR2501	RN1706R	TRANSISTOR-RESISTOR	B1GFCFGN0004
R452	ERJ2GEJ274X	M.RESISTOR CH 1/16W 270K	
R453	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	
R454	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R455	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R456	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
R457	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R458	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
R459	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R460	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
R461	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R462	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R463	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
R464	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X

Ref. No.	Part No.	Part Name & Description	Remarks
R465	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R466	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	
R467	ERJ2GEJ274X	M.RESISTOR CH 1/16W 270K	
R469	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R470	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R2503	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	D0GB101JA002
R2504	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	D0GB101JA002
R2507	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	D0GB101JA002
R2508	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R2509	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	ERJ2GEJ272X
R2510	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	ERJ2GEJ272X
R2511	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R2513	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R2514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	
R2515	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2516	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2517	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R4001	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	
R4002	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
R4003	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
VZ2501	D4ED1120A002	TRANSIENT/SURGE ABSORBER	
VZ2502	D4ED1220A006	TRANSIENT/SURGE ABSORBER	
VZ2503	D4ED1220A006	TRANSIENT/SURGE ABSORBER	
VZ2504	D4ED1220A006	TRANSIENT/SURGE ABSORBER	
VZ4001	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
■	VEP07A52A	FLASH C.B.A.	(RTL)
C491	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C492	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C493	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C3901	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C7001	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C7002	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	
C7003	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C7004	F2AZZ7500002	ELECTROLYTIC CAPACITOR	
C7006	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C7007	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C7008	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C7009	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	
C7010	ECUV1C105KBN	C.CAPACITOR CH 16V 1U	F1J1C105A091
C7011	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C7012	ECUX1A334KBV	C.CAPACITOR CH 10V 0.33U	
D491	MA132WA	DIODE	MA3S132D
D3901	MA133	DIODE	MA3S133
D7003	B0ECKT000001	DIODE	
D7004	MAZU3000LL	DIODE	
FL3961	VLF1518A206	CHIP BEAD	
FP7001	VJS3971D027	CONNECTOR (FEMALE) 27P	K1MN27B00008

Ref. No.	Part No.	Part Name & Description	Remarks
FP7002	VJS3971B033	CONNECTOR (FEMALE) 33P	
IC7001	TC7S08FU	IC	C0JBAA000203
IC7002	TA75S393F	IC	C0BBAB000005
JK3001	VJJ0670	S-JACK	K2HZ104A0002
JK3801	VJJ0673	DV TERMINAL	K1FA104A0011
L7001	VLQ0900M560	COIL 56UH	
LB3962	J0JHC0000032	FILTER	
Q491	2SD1030	TRANSISTOR	
Q492	2SD1819A-R	TRANSISTOR	2SD1819AR
Q7001	B1BDDG000001	TRANSISTOR	B1BDDG000005
Q7002	2SB1462J	TRANSISTOR	
Q7003	B1ABBE000002	TRANSISTOR	
Q7004	B1JBLP000003	TRANSISTOR-RESISTOR	B1JBLP000002
QR7001	B1GBCFGJ0007	TRANSISTOR-RESISTOR	
QR7002	B1GBBEMM0001	TRANSISTOR-RESISTOR	
QR7003	B1GDBEH0001	TRANSISTOR-RESISTOR	
QR7005	B1GBCFGJ0007	TRANSISTOR-RESISTOR	
QR7006	B1GBCFGJ0007	TRANSISTOR-RESISTOR	
R491	ERJ2GEJ225X	M.RESISTOR CH 1/16W 2.2M	ERJ2RMJ225X
R492	ERJ2GEJ334X	M.RESISTOR CH 1/16W 330K	ERJ2RMJ334X
R493	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R494	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	ERJ2GEJ182X
R495	ERJ3GEYJ106V	M.RESISTOR CH 1/16W 10M	
R496	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3901	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R3902	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R3903	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3904	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3905	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3906	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R6151	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R7001	ERJ6GEYJ330V	M.RESISTOR CH 1/10W 33	
R7002	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R7003	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	
R7004	ERJ2GEJ822X	M.RESISTOR CH 1/16W 8.2K	ERJ2RMJ822X
R7005	ERJ2GEJ334X	M.RESISTOR CH 1/16W 330K	ERJ2RMJ334X
R7006	ERJ2GEJ564X	M.RESISTOR CH 1/16W 560K	ERJ2RMJ564X
R7008	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	
R7009	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	
R7010	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R7011	ERJ2GEJ563X	M.RESISTOR CH 1/16W 56K	
R7012	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R7013	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R7014	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R7015	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	ERJ2GEJ123X
R7016	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	ERJ2GEJ153X
R7017	ERJ2GEJ332X	M.RESISTOR CH 1/16W 3.3K	ERJ2RMJ332X

Ref. No.	Part No.	Part Name & Description	Remarks
R7018	ERJ2GEJ681X	M.RESISTOR CH 1/16W 680	ERJ2RMJ681X
R7019	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R7020	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
T7001	G5DYA0000033	SWITCHING TRANSFORMER	G5DYA0000032
VZ3952	D4ED1120A002	TRANSIENT/SURGE ABSORBER	
VZ6401	D4ED1270A008	TRANSIENT/SURGE ABSORBER	
VZ6402	D4ED1270A008	TRANSIENT/SURGE ABSORBER	
VZ7001	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
■	VEP04807A	FRONT C.B.A.	(RTL)
C4901	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C4902	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C4903	ECUX0J105KBV	C.CAPACITOR CH 6.3V 1U	
C4905	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C4908	ECUX0J105KBV	C.CAPACITOR CH 6.3V 1U	
C4910	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C4912	ECUX0J105KBV	C.CAPACITOR CH 6.3V 1U	
C4925	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	
C6401	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	
C6402	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
D6801	CL170HR-CD	CHIP LED	B3AAB0000051
FP4901	VJS4322A014	CONNECTOR (FEMALE) 14P	
FP4903	K1MN07B00072	CONNECTOR	
IR6401	PNA4611M05VT	IR RECEIVER	
JK4901	VJJ0414	MIC JACK	K2HC105E0003
LB4905	J0JAC0000026	FILTER	
LB4906	J0JAC0000026	FILTER	
LB4907	J0JHC0000032	FILTER	
Q4901	2SC4116GR	TRANSISTOR	
Q4902	2SA1586	TRANSISTOR	
Q4903	2SC4116GR	TRANSISTOR	
Q4904	2SA1586	TRANSISTOR	
Q4905	2SC4738FY	TRANSISTOR	
Q4906	2SC4738FY	TRANSISTOR	
Q4907	2SC4738FY	TRANSISTOR	
R4901	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R4902	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R4903	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R4904	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R4905	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	ERJ2RMJ471X
R4906	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4907	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	
R4908	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	

Ref. No.	Part No.	Part Name & Description	Remarks
R4909	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4910	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	
R4911	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	ERJ2GEJ151X
R4912	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	ERJ2RMJ471X
R4913	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4914	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	
R4915	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4916	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4917	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	
R4918	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	ERJ2GEJ151X
R4919	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R4920	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	
R4921	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
R4922	ERJ2GEJ682X	M.RESISTOR CH 1/16W 6.8K	ERJ2RMJ682X
R4923	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	
R4924	ERJ2GEJ682X	M.RESISTOR CH 1/16W 6.8K	ERJ2RMJ682X
R4925	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R4926	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R4927	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R4928	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R4929	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R4930	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R4934	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R6402	ERJ3GEYJ470V	M.RESISTOR CH 1/16W 47	
R6403	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R6803	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
		MISCELLANEOUS	
	VMP6983	ANGLE	
	VGQ6376	ALUMINUM FOIL	
	VGL0986	PANEL LIGHT	
	VGL0985	PANEL LIGHT	
■	VEK9575	MIC UNIT	(RTL)
C4801	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C4802	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C4803	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C4804	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C4806	ECUX1H820JCQ	C.CAPACITOR CH 50V 82P	ECJ0XC1H820J
C4808	ECUX1H820JCQ	C.CAPACITOR CH 50V 82P	ECJ0XC1H820J
C4809	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C4811	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C4813	VCS0JP106R	SOLID TANTALUM CAPACITOR	F3E0J106A005
C4814	ECST0JY226R	T.CAPACITOR CH 6.3V 22U	
FP4801	K1MN07B00072	CONNECTOR	
IC4801	C0ABCB000051	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
M4801	WM-61B102A	ECM	
M4802	WM-61B102A	ECM	
M4803	WM-61B102A	ECM	
M4804	WM-61B102A	ECM	
Q4801	2SD2216	TRANSISTOR	2SD22160R
R4801	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	
R4802	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	
R4803	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	
R4804	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	
R4805	ERJ2GEJ273X	M.RESISTOR CH 1/16W 27K	ERJ2RMJ273X
R4806	ERJ2GEJ273X	M.RESISTOR CH 1/16W 27K	ERJ2RMJ273X
R4807	ERJ2GEJ273X	M.RESISTOR CH 1/16W 27K	ERJ2RMJ273X
R4808	ERJ2GEJ273X	M.RESISTOR CH 1/16W 27K	ERJ2RMJ273X
R4809	ERJ2GEJ273X	M.RESISTOR CH 1/16W 27K	ERJ2RMJ273X
R4810	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	ERJ2GEJ124X
R4811	ERJ2GEJ273X	M.RESISTOR CH 1/16W 27K	ERJ2RMJ273X
R4812	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	ERJ2GEJ124X
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	
R4814	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R4815	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
■	VEP06E28A	GRIP C.B.A.	(RTL)
C6101	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
D6101	CL190UR	DIODE	B3AAB0000067
D6102	SML-310MT	LED	B3ABB0000091
D6103	SML-310DT	LED	B3ADB0000026
D6104	CL190UR	DIODE	B3AAB0000067
D6105	B0JDAD000001	DIODE	
D6106	B0JDAD000001	DIODE	
FP6101	VJS4036B008	CONNECTOR (FEMALE) 8P	
FP6102	VJS4298B008	CONNECTOR (FEMALE) 8P	K1MN08B00048
FP6103	VJS3971D021	CONNECTOR (FEMALE) 21P	K1MN21B00016
R6101	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R6102	ERJ3GEYJ121V	M.RESISTOR CH 1/16W 120	
R6103	ERJ3GEYJ181V	M.RESISTOR CH 1/16W 180	
R6104	ERJ3GEYJ102A	M.RESISTOR CH 1/16W 1K	
S6103	VSS0535	SLIDE SWITCH	K0D113B00036
S6104	VSS0392	SLIDE SWITCH	K0D112B00074
S6201	VSP0584	SWITCH	K0L1BA000019
S6202	VSP1102	SWITCH	K0H1BA000260
■	VEP07A46A	FLASH FLEX. CARD	(RTL)
C7005	F1K2E223A004	CERAMIC CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C7013	F1K2E223A004	CERAMIC CAPACITOR	
Q7005	PNA1101LW	PHOTO TRANSISTOR	
R7007	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	ERJ6GEYJ105V
S7001	VSP0584	SWITCH	K0L1BA000019
		MISCELLANEOUS	
	EFN-MVP35	BACK LIGHT	
	VGQ6249	PT HOLDER (A)	
	VGQ6250	PT HOLDER (B)	
	VGQ6308	PT PROTECTOR	
■	VEP28285A	EVF C.B.A.	(RTL)
C802	ECUV1A226MBP	C.CAPACITOR CH 10V 22U	F1L1A2260013
FP801	K1MN19B00029	CONNECTOR	K1MN19B00030
FP802	VJS4353B016	CONNECTOR (FEMALE) 16P	
L881	VLQ0779K100	COIL 10UH	G1C100KA0005
Q881	2SK2055	TRANSISTOR	
T881	ETJ11K73AM	TRANSFORMER	
		MISCELLANEOUS	
	VMZ3213	BARRIER	
■	VEK9360	SUB REC C.B.A.	(RTL)
D6802	PH310	DIODE	B3GA00000001
S7002	VMG1112	SWITCH	
		MISCELLANEOUS	
	VGQ4836	SWITCH HOLDER	
■	VEP06E30A	GRIP FLEX. CARD	
S6211	VSP0584	SWITCH	K0L1BA000019
S6212	VSP0584	SWITCH	K0L1BA000019
■	VEP000V7A	SD SHOE FLEX. CARD	(RTL)
HS3401	K1NA09E00021	CONNECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP06E29A	HALL SENSOR FLEX. CARD	(RTL)
IC991	DN8797MS	HALL IC	

15. SCHEMATIC DIAGRAM FOR PRINTING WITH A4 SIZE

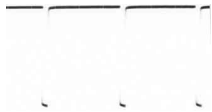
INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
	CRA	Pre Aperature Gain Control		DISCS	Dis Chip Select
	CRST	Camera Reset		DISP	Display
	CS	Chip Select		DL	Delay Line
	CS 0-7	Chrominance Signal Out 0-7		DOBCK	Audio A/D Convertor Bit Clock
	CSEL	Clock Phase Select		DOCTL	Data Output Control Signal
	CSI 0-7	Chrominance Signal In 0-7		DODAT	Serial Data (to D/A Converter)
	CTSW	Crosstalk Switch		DOLRCK	Audio A/D Converter LR Clock
	CURR	Current		DOLRCK	L/R Clock (to D/A Converter)
	CW	Clockwise		DOMCK	Audio A/D Converter Master Clock
	CYL EC	Cylinder Motor Trque Control		DOMCK	Master Clock (to D/A Converter)
	CYL PG	Cylinder Motor PG		DQ 1-16	Memory Data
	CYL VM	Cylinder Motor Current or Power		DRAM CAS	D-RAM Colum Address Strobe
D				DRAM OE	D-RAM Out Enable
	D CLK	Digital Clock		DRAM RAS	D-RAM Read Address Strobe
	D MODE	Digital Mode Switch Signal		DREC	AV Delayed REC Start Pulse
	D01-03	Zoom 01-03		DRK	Dark (LPF Switch for Auto Focus)
	DA UV SEL	D/A Convertor U/V Select		DS1, 2	Double Sampling Pulse
	DAC	Digital Analogue Converter		DSF 0-7	Data In/Out for Shaffling Memory
	DAG	Digital Analogue Ground		DSF 0-7	Input/Output Data to Shuffling Memory (18MHz)
	DB0-7	Data 0-7		DSP	Digital Signal Processor
	DB0-7	Microprocessor Data		DSP R/B	DSP IC Rady/Busy
	DCC	DC Clamp Control		DSP-48K-H	DSP IC Clock Select
	DCCNT	DC Control		DSTB	Data Stobe Signal
	DCI	Digital Channel Cording IC		DSV	Digital Sum Variation
	DCLR	Digital Clear		DV	Digital Video
	DCP	Digital Clamp Pulse		DVB	Digital Video Broadcast
	DCS-CLK, DA	CAS & DV I/F Serial Clock		DVC	Digital Video Cassette
	DC-STP1	DCS Serial Start		DVDD	Digital VDD
	DC-STP2	DCS Serial Stop		DVIO	Digital Video Input Output
	DCT	Discrete Cosine Transform (Compression)		DVSS	Digital Ground
	DCX7	Serial Data		DX	Shift Data for X Direction (for LCD)
	DEDP 0-3	Playback Data		DY	Shift Data for Y Direction (for LCD)
	DEDR 0-3	Rec Data		DY	TFT Y-axis Shift Data
	DEMO	Demodulation		DZ	Digital Zoom
	DEMP	A/D Convertor Empahsis Control	E	E Snap	Electric Snap Shot
	DEMP	De-Emphasis		E ZM	Electric Zoom
	DFD 0-7	Encode Data In/Out Between Shaffling Memory		E2 CS or E2P CS	EEPROM Chip Select
	DFD0-7	Encode Input/Output Signal for Shuffling Memory		E2 R/B	EEPROM Rady/Busy
	DIBDCK	Bit Clock		E2P	EEPROM
	DICLK	Digital Clock		EARP	Earphone
	DIDAT	Serial Data		EC	Torque Control
	DIDAT	Serial Data Durring Digital Audio In		ECC	Error Correction Cording
	DIF	Digital Interface		ECM	Electric Condencer Mic
	DILRCK	L/R Clock		ECR	Reference Voltage for Capstan Torque
	DILRCK	Serial Clock Durring Digital Audio In		EDA	Error Correction, DCI, ATF Servo
	DIMCK	Master Clock		EE CS	EEPROM Chip Select
	DIMCK	Mater Clock Durring Digital Audio In		EE R/B	EEPROM Read (H)/Busy (L)
	DIO 1-8	Data In/Out		EEPROM	Electric Erasable Programable Read Only Memory
	DIOS	Data In/Out Select Control Signal		EIS	Electric Image Stabilizer (DIS)
	DIOS	Select Signal for Digital In/Out		EMP	A/D Convertor Emphasis Control
	DIS	Digital Image Stabilizer		ENAB	Enable
	DIS R/B	Digital Image Stabilizer Read (H)/Busy (L)		ENV	Enverope
	DIS R/B	DIS IC Rady/Busy		EOB	End of Block
	DIS/KAND	Digital Image Stabilizer/Sensitivity			

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
	EQ EVF EXT DC EXT DC(H) EXT NOREG EXT S DATA EXT SCK EZOOM	Equalizer Electric View Finder External DC (AC Adaptor) AC Adaptor DC (H) AC Adaptor 6V Serial Data for Edit Serial Clock for Edit Electric Zoom		HD HDTV HEX HG HID HLT HALL IN(+), (−) HP HPF HSE HSP HSS HSW HS-WT HSZ	Horizontal Drive Pulse High Definition TV Hexadecimal Hall Gain Head Switching Pulse High Bright Signal Input Signal from Hall IC Headphone High Pass Filter Modulated Data Output Timing Pulse for Shaffling Memory Horizontal Sync Signal Head Switching Pulse High Speed Zoom High Speed Zoom
F	F ENC FACT MODE FB FC FCK FCO FENC FEND FH2B FIX OSD FLICK FM FM0-7 FMCO0-3 FMDIR FMOEM FMOEO FMT1-4 FMY00-07 FMYI0-07 FNO FPS FR FRP FRPSO	Lens F-Value Factry Mode (not used in the service) Feed Back Saw Tooth Signal In Clock Saw Tooth Signal Generator Focus Encoder Frame End Pulse FH/2 (15.625KHz / 2=7.8125KHz) Auto Tracking Off (H) Flicker Output Field Memory Field Memory 0-7 Field Memory Chrominance Out 0-4 Focus Motor Direction Field Memory Enable Field Memory Enable Focus Motor Terminal 1-4 Field Memory Luminance Out 0-7 Field Memory Luminance In 0-7 F Value Frame Reference Signal Capstan Reverse High Frame Reference Pulse Frame Start Pulse	I	I/F I-2 C ID(H) IMP INF INF INS INTER INV IOU IOV IOY IR IRDET IREF IRIS/SH IRQ ITI	Interface Inter Integrated Circuit Wide Television (H) Inter Microprocessor Protocol CCD Input Signal 1 Input Frame Signal CCD Input Signal 2 Interval Recording Inverter R-Y Analogue Signal Output B-Y Analogue Signal Output Y Analogue Signal Output Infrared Rays Imfrared Ray Detection Current Adjustment Terminal Iris / Shutter Control Interrupt Request Insert & Track Information
			J	JPEG	Joint Photographic Image Cording Experts Group
G	G1, G2, G3 GCA GCNT G-CNT GCTRL GENE GF GSW	Gap 1, 2 and 3 Gain Control AMP Gain Control AGC Adjustment Gain Control Generator FG AMP Terminal Ground for Switching Power	K	KANDO KB KEY IN KND KNEE	Digital Gain Up Carrier Balance Key Scan Digital Gain Up Luminance Compensate
			L	LCD LCD P(L) LD LDD LEDCNT LI-BATT LOAD LOAD F, R LPF LRMONO LSB	Liquid Crystal Display LCD Power On (L) Load Pulse Liquid Direct Drive LED Control Lithium Battery Loading Loading Direction (F: Forward / R: Reverse) Low Pass Filter Monoral Audio (L + R) Least Significant Bit
H	H/M/N H/N H1, 2 HAP HASW HB HBR SET HBRST HCLR HCP	Hi-Fi / Mix / Normal Hi-Fi / Normal H. CCD Drive Pulse Horizontal Aperture Head AMP Switching Pulse Hall Bias High Brightness Set High Brightness Set High Clear Shift Clock for Horizontal Drive			

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
	LVL	LPF Switch for Auto Focus	P	P SW	Power Switch
M	M1-3	Motor Coil Terminal 1 to 3		PB1-3	PNP Base 1-3
	MA0-5	Microprocessor Address Data 0-5		PBCTL	Play Back Control
	Mbps	Megahertz Bit Per Second		PBCTL	Pre-Branking Control
	MD	Modulation		PBH	Head Amp Switch
	MD0-7	Microprocessor Data 0-7		PBLK	Pre-Blanking (Pulse)
	MDT0-7	Microprocessor Data 0-7		PC1-3	Corrector of PNP Transistor
	ME (TAPE)	Metal Evaporated (Tape)		PCBM	Carrier Balance
	MENB	Focus Motor Enable		PCH	Phase Compensator (Hall AMP)
	MFF	Manual Focus Far		PCI	Phase Compensator (Current)
	MFN	Manual Focus Near		PCO	Phase Compensator Out
	MHSYNC	Monitor Horizontal Sync Signal		PCS	Switching Power Control
	MIC	Memory In Cassette		PCV	Phase Compensator (Voltage)
	MIG	Meta In Gap		PE	Emitter of PNP Transistor
	MIX N.R.D.	Non Rec Data Mix		PED	Pedestal
	MOD	Modulation		PEDECNT	Pedestal Control
	MOUT	Mic Out		PENO	Alarm (L)
	MP (TAPE)	Metal Particle (Tape)		PFP	Pilot Frame Position
	MPEG	Moving Picture Image Cording Experts Group		PGA, B	Power Ground A, B
	MPEG2	Moving Picture Image Cording Experts Group Phase 2		PGC	Pulse Generator Comparator
	MRST	Focus Motor Reset		PGI	Pulse Generator Input
N	MSB	Most Signal Bit		PGMM	Pulse Generator Monostable Multivibrator
	MVSYNC	Monitor Vertical Sync Signal		PGO	Output of Pulse Generator AMP
	N/F	Near/Far Focus		PMODE	Select Signal for Normal / Wide Screen
	N/P	NTSC/PAL		PON	Power On
	NB1-3	Base for NPN Transistor		POR	Power On Reset
	NC	No Connection		POSCOM	Common Position
	NC1-3	Corrector of NPN Transistor		PREAMP	Pre-AMP
	NCLR	Power On Reset		PREBLK	Pre-Blanking
	NCP1	Clamp Pulse		PT	Protect for V Voltage
	NCP2+VDH	Clamp Pulse + Horizontal Drive Pulse		PWM	Pulse Width Modulation
	NCP2+VDM	Clamp Pulse + Gate Pulse		PWMB	Pulse Width Modulation Pulse
	NDE	Non Liner De-Emphasis	Q	Q2H	Source Output Select
	NE	Emitor of NPN Transistor	R	R CTL P	Recorded Control Pulse (+)
	NLE	Non Liner Emphasis		R CTL R	Recorded Control Pulse (–)
	NR	Noise Reduction		R/B	Read/Busy
	NRD	Non Rec Data		R/L	Direction Control for Data Transmition
	NRD BLK	Non Rec Data Blanking		RA	Recording AMP
	NRD CLK	No Rec Data Clock		RA1	Rec AMP 1
	NRE	Read Enable Input (Low Active)		RAC AC	Rec Audio Current
	NWE	Write Enable (Low Active)		RAD	Read Address Data
O	OB	Optical Black		RAE	Read Address Enable
	OBCNT	Optical Black Control		RB	Read Busy
	OBREF	Reference Voltage for Optical Black Control		R-B	R Bias
	OE	Output Enable		RCB	R Carrier Balance
	OFH	Horizontal Counted Down Clock Signal (Reference)		RE	Read Enable
	OFS	Offset		RE(F), (S)	Rotary Erase Head Transformer
	OP	Operation AMP Output		REB	R Bias
	OSD	ON Screen Display		REC CC	Rec Current Control
	OVL	Overlap Pulse		REC CCNT	Rec Current Control
	OZ	Optical Zoom		RECCTRL	Recording Control Pulse
				RECI	Rec Amp Switch

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
	RENCF	Lens Control (Forward)		SWB	Switching Pre-Drive Pulse
	RENCR	Lens Control (Reverse)		SYL EC	Cylinder Torque Control
	RERASE	Rotary Erase Head	T	SYL FG	Cylinder FG
	RGBIV1-2	1V Inverted Signal 1-2		T PHOT	Take-up Photo Transistor
	RGO R/G OFF	Offset Voltage for AWT R		TBC	Time Base Conntrol
	RSF	Capstan Direction (Reverse / Stop / Forward)		TFT	Thim Film Transistor
	RST	Reset		TH	Thermostat for Battery
	RSTB	R Strobe		TI	Test Mode Select
	RSTPWD	Reset Power Down Input		TL	Torque Limit
	RSTR	Reset Read		TM	Sub Code
	RSTW	Reset Write		TMD	Sub Code Data
	RT	Saw Tooth Terminal		TRE	Tracking Error Signal
	RVCO	Resister for Oscillation		TREEL(P)	Take-up Reel (Pulse)
	RW	Read Write		TRFIX	Tracking Fix
	RWAE	Read Write Enable		TRIWAVE	Tracking Wave
				TRP	Tracking Position
				TRP	Trap
				TSR	Head Switching Refference
				TST	Time Scale Transfer
S	S PHOT	Supply Photo Transistor	U	U/V SEL	R-Y/B-Y Select Signal
	S/H	Sampling Hold		UNLOAD	Un-Loading
	S/S	Start/Stop		UNRE	Microprocessor Read Enable
	SBD	Serial Data		UNWE	Microprocessor Write Enable
	SBI	Serial Data Input		UV	R-Y/B-Y
	SBO	Serial Data Output		UV SEL	R-Y/B-Y Select Signal
	SBT	Serial Clock	V	V1-V4	V. CCD Drive Pulse
	SCAN0-5	Key Scan 0-5		VB	VH Filter Switching
	SCK	Serial Clock		VCE	Power Terminal
	SCR	Search		VCNTL	Video Control
	SCR, S.C.R.	Still Cue Review		VCO	Voltage Control Oscillator
	SEG.	Segment		VCP	Shift Clock Output for Vertical Drive
	SET	White Balance Set		VCTLD	Video Control
	SH/IRIS	Shutter/Iris Control		VCTRL	Voltage Charge Control
	SHIFT	Capasitor for Phase Shift		VD	Vertical Drive Pulse
	SI	Serial Data Input		VDDX	X Drive Power for Colour LCD
	SIC	Shift In Clock Input		VDDXY	XY Drive Power for Colour LCD
	SIOC	Serial In/Out Control		VDDY	Y Drive Power for Colour LCD
	SMCE	Shaffling Memory Chip Enable		VDREC	Video Delayed Rec
	SMRS	Shaffling Memory Read Strobe		Vgg	Voltage for Gate IC
	SMWE	Shaffling Memory Write Enable		Vgl	Gate off Voltage
	SMWS	Shaffling Memory Read Strobe		VID	Video Signal Out
	SNAP	Snap Shot		VIN	Video In
	SNS LED	Sensor LED		VITC	Vertical Interval Time Code
	SO	Serial Data Output		VITERBI	One of Signal Detection Method
	SPA	ATF Smapling Pulse		VL	Low Voltage
	SPEN	8 Bit Shift Register Enable		VLC	Variable Length Cording
	SPK	Speaker		VLOCKP	Artificial Sync Pulse
	SPO	Reset for Switching Power		VLP	Artificial Sync Pulse
	SPST	8 Bit Shift Register Strobe		VM	Motor Voltage
	SREELP	Supply Reel Pulse		VMD	Velocity Mode Data
	SRT	Start		VMD1-3	Electric Shutter Mode
	SSA	Start Sync block Area			
	SSW	Select Signal for Low Pass Filter			
	ST5V	Safety Tab 5V			
	STAB	Safety Tab Switch			
	STB	Stand by Signal			
	STB	Strobe			

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO	ABBREVIATIONS
	VMODE VMVH VORP VRB VRBS VREF1R3V VREF3R3V VREFH VREFL VRI VRO VRT VRTS VS VSS VSSX VSSXY	NTSC/PAL Select Switch VH Filter Switching Video Overlap Voltage Reference Bottom Voltage Reference Bottom Output Reference Voltage 1.3V Reference Voltage 3.3V Reference Voltage High Side Reference Voltage Low Side Reference Voltage Input Reference Voltage Output Voltage Reference Top Voltage Reference Top Output Switching Comparator Vertical Sync Signal X Driver Power for Colour LCD X-Y Driver Power for Colour LCD		
W	W/N W/N WAD WAE WAERAE WARI WB WE WEM WHD WIDE A WSB WSR WTV	Mode Select for Window Mode Wide / Normal Write Address Enable Write Address Enable Write Address Enable Interrupt White Balance Write Enable Memory Write Enable Wide Horizontal Drive Pulse Wide Zoom B AGC Control R AGC Control Wide TV		
X	XP	FG Logic Reset		
Y	Y FM0-7 YCE YGC YMO 0-7 YNCST YNR YSDP 0-7	Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction Digital Y Out 0-7		
Z	Z.ENC Z.MIC ZENC ZMDIR ZMEN ZMT ZMT (+)/(-) ZMTER ZMW ZSW	Zoom Encoder Zoom Mic Zoom Encoder Output Zoom Drive Zoom Enable Zoom Motor Tele Side Zoom Motor (+)/(-) Zoom Motor Tele Side Zoom Motor Wide Side Zoom Switch		



IC901-5 (REC/PLAY)
2.7Vp-p (20u sec. div.)



IC901-10 (REC/PLAY)
3.0Vp-p (20uSec.div.)



IC901-32 (REC/PLAY)
9.0Vp-p (20usec.div.)



IC901-34 (REC/PLAY)
9.0Vp-p (20usec.div.)



IC901-36 (REC/PLAY)
9.0Vp-p (20uSec/div.)



IC901-70 (REC/PLAY)
0.5Vp-p (20usec.div.)



IC901-71 (REC/PLAY)
0.5Vp-p (20u sec./div.)



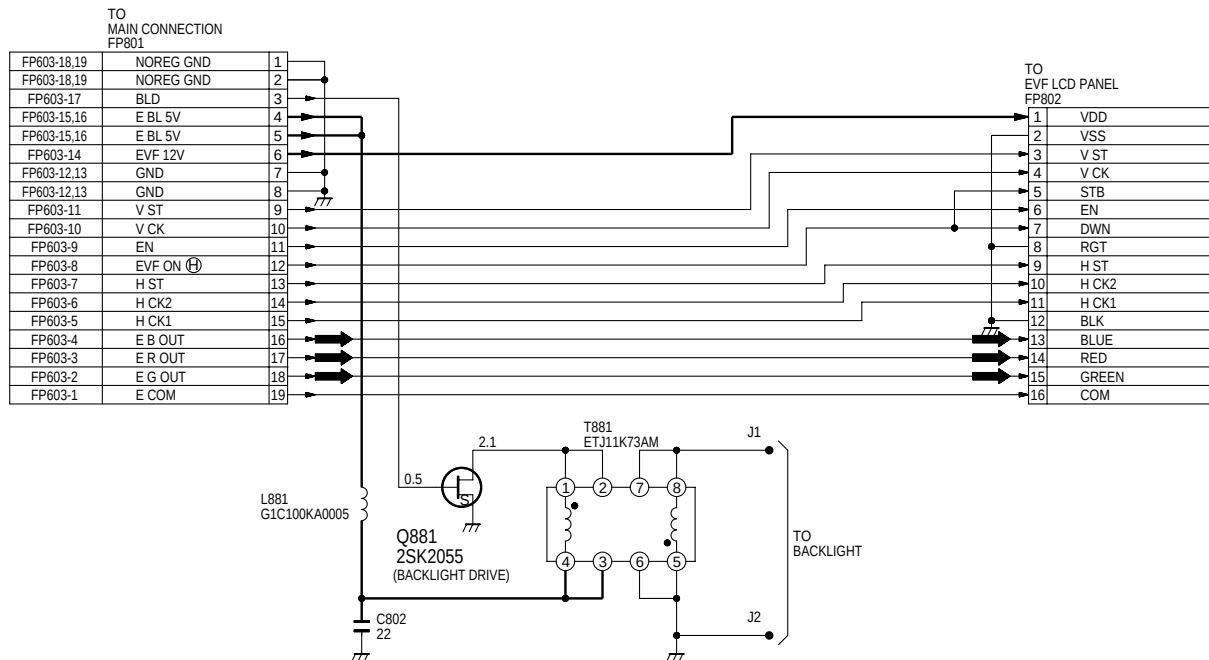
IC901-72 (REC/PLAY)
0.6Vp-p (20u sec./div.)

Monitor C.B.A.							
Integrated Circuit		Diode		C939	D-4	R942	B-1
IC901	B-2	D901	D-2	C940	D-4	R943	B-1
IC903	E-3	D902	E-4	C941	D-4	R944	D-2
IC904	E-3	D903	C-4	C942	E-4	R945	D-2
IC905	D-4	D904	D-4	C943	E-4	R946	D-2
Transistor		D905	B-1	C944	C-4	R947	D-2
Q901	E-3	D906	B-1	C945	B-4	R951	C-4
Q902	C-4	D907	C-4	C946	B-4	R952	B-4
Q903	A-3	D908	B-3	C947	C-3	R953	D-4
Q904	D-2	D909	B-4	C948	C-4	R954	D-4
Q905	D-2	D910	E-2	C949	B-3	R955	D-4
Q906	A-3	Coil		C950	B-3	R956	D-4
Q907	C-2	L901	D-2	C952	B-4	R957	D-4
Q908	C-3	L902	B-2	Resistor		R958	D-4
Transistor & Resistor		L903	D-2	R901	C-1	R959	C-4
QR901	C-4	L904	D-2	R902	C-1	R960	D-4
QR902	E-4	L905	C-3	R903	C-1	R961	D-4
QR903	C-4	L907	D-2	R904	B-1	R962	D-4
QR904	E-2	Transformer		R905	B-1	R963	E-4
Test Point		T901	B-3	R906	D-3	R964	C-4
CL901	A-2	T902	D-3	R907	B-1	R965	E-4
CL903	A-2	Capacitor		R908	C-1	R966	E-4
CL905	C-1	C901	B-3	R909	C-1	R967	E-4
CL906	C-1	C902	C-2	R910	C-2	R968	E-4
CL908	C-1	C903	B-2	R911	C-2	R969	E-4
CL911	A-2	C905	C-3	R912	B-3	R970	C-4
CL913	A-2	C906	A-2	R913	B-3	R971	E-4
CL914	C-2	C907	D-2	R914	B-3	R972	B-4
CL915	D-1	C908	C-2	R918	D-1	R973	E-4
CL916	D-1	C909	B-1	R919	C-2	R974	E-4
CL917	D-1	C910	A-2	R920	A-3	R975	C-4
CL918	D-2	C911	A-2	R921	E-3	R976	C-4
CL919	D-4	C912	A-2	R922	E-2	R977	C-4
CL920	D-4	C913	A-2	R923	C-3	R978	C-3
CL921	C-4	C914	C-2	R924	E-3	R979	C-4
CL922	D-4	C915	D-2	R925	E-3	R985	C-1
CL923	D-4	C916	C-1	R926	B-3	R986	C-1
CL924	D-4	C917	C-1	R927	B-3	R989	C-4
CL925	D-1	C918	C-1	R928	C-2	Jumper	
CL926	D-2	C919	A-1	R929	C-2	JA1	E-2
CL927	E-1	C923	E-3	R930	D-1	JA2	E-2
CL928	C-4	C925	A-2	R931	D-1	JA3	E-2
CL929	D-1	C930	D-1	R932	D-1		
CL930	C-4	C931	D-1	R933	D-1		
CL931	E-4	C932	D-1	R934	C-2		
TL901	E-4	C933	A-3	R935	C-2		
TL902	A-1	C934	D-1	R936	C-1		
TL903	F-4	C935	D-1	R937	C-1		
Connector		C936	A-2	R938	E-1		
FP901	A-4	C937	B-4	R940	B-3		
FP903	D-3	C938	D-4	R941	B-3		

ADDRESS INFORMATION

(EVF FLEX.CARD)

➡:VIDEO MAIN SIGNAL PATH



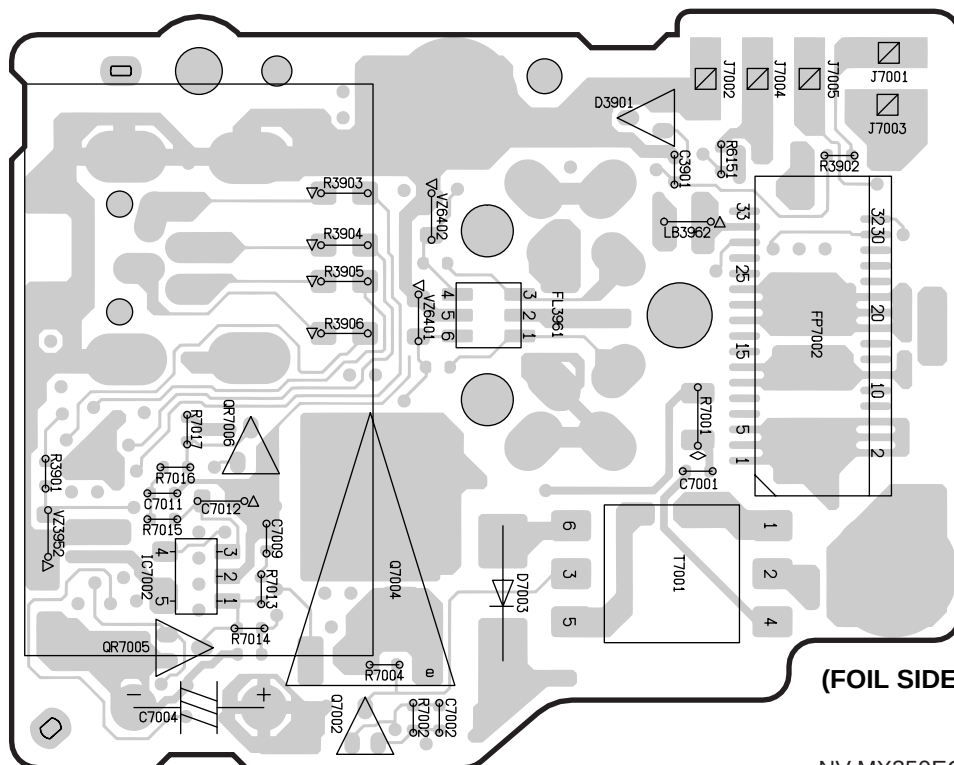
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE
REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS
DIAGRAM IS STOP MODE.(EVF:ON)

NV-MX350EG/B/EN/A
EVF FLEX CARD.
SCHEMATIC DIAGRAM

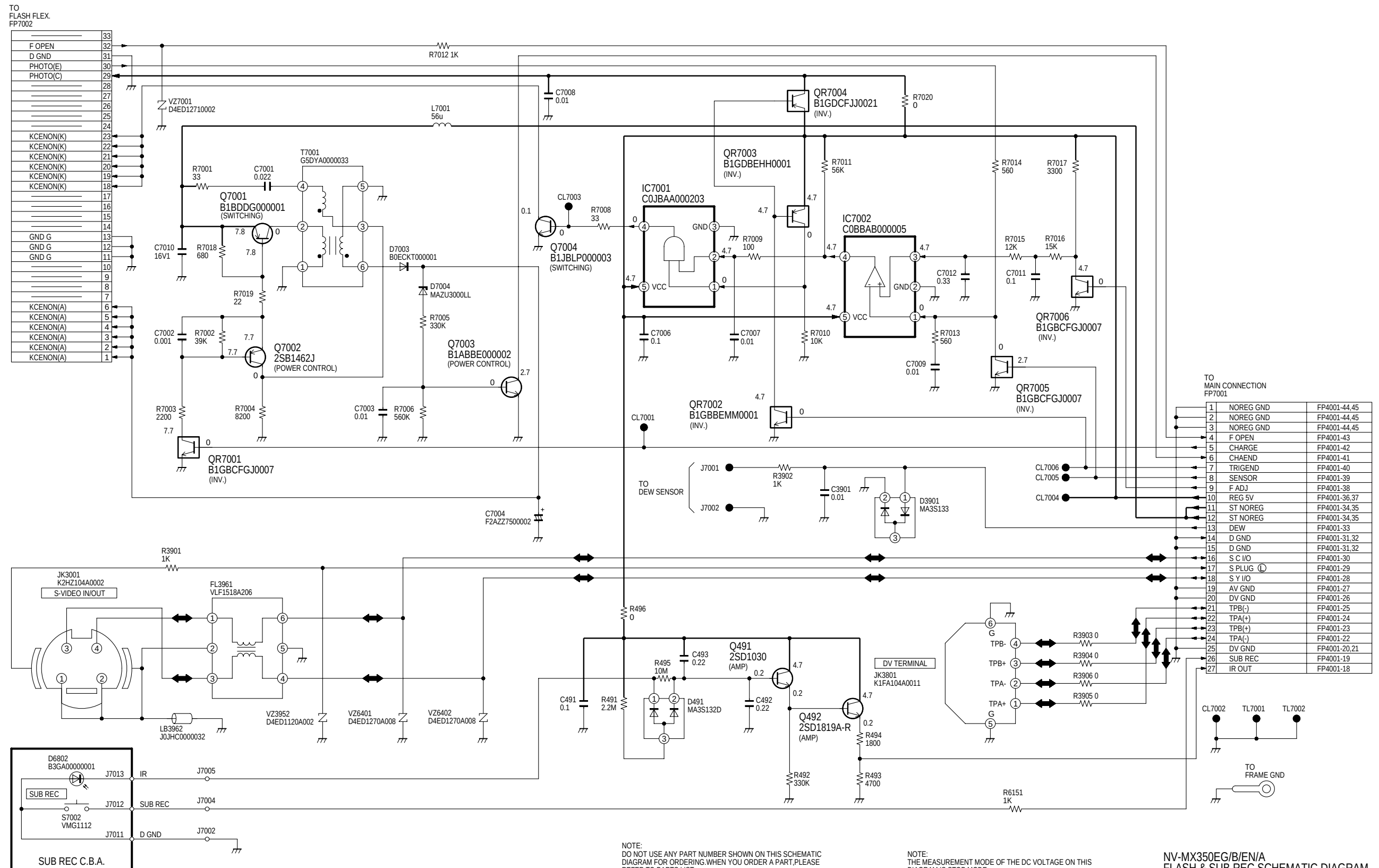
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(COMPONENT SIDE)



(FOIL SIDE)

NV-MX350EG/B/EN/A
FLASH C.B.A.



A



NV-MX350EG/B/EN/A
FLASH FLEX.CARD SCHEMATIC DIAGRAM

A

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

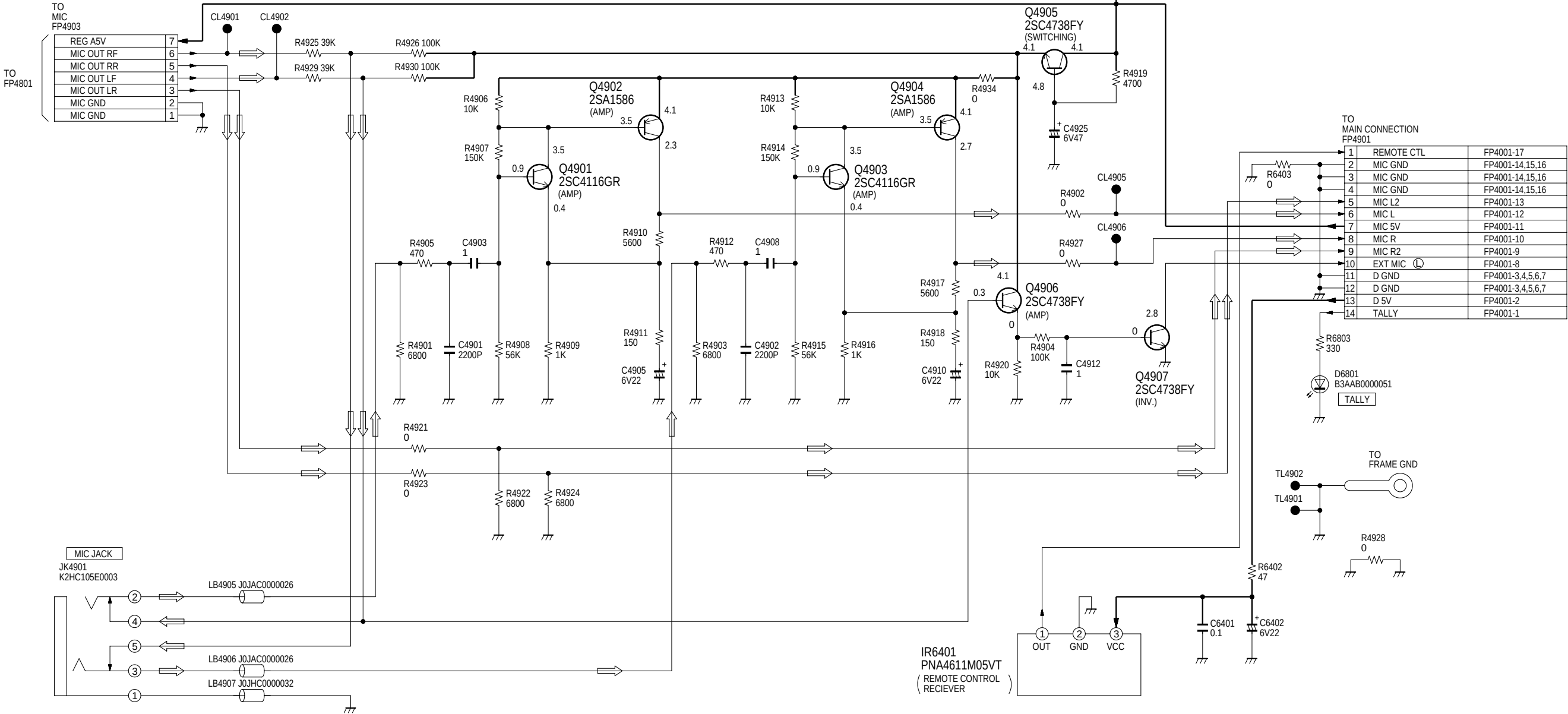


NV-MX350EG/B/EN/A
FRONT C.B.A.

1	2	3	4	5
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(FRONT C.B.A.)

⇒:AUDIO MAIN SIGNAL PATH



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE
REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS
DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE
BRACKETS() ON THIS DIAGRAM IS RECORD MODE.
(SP MODE)

NV-MX350EG/B/EN/A
FRONT SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8

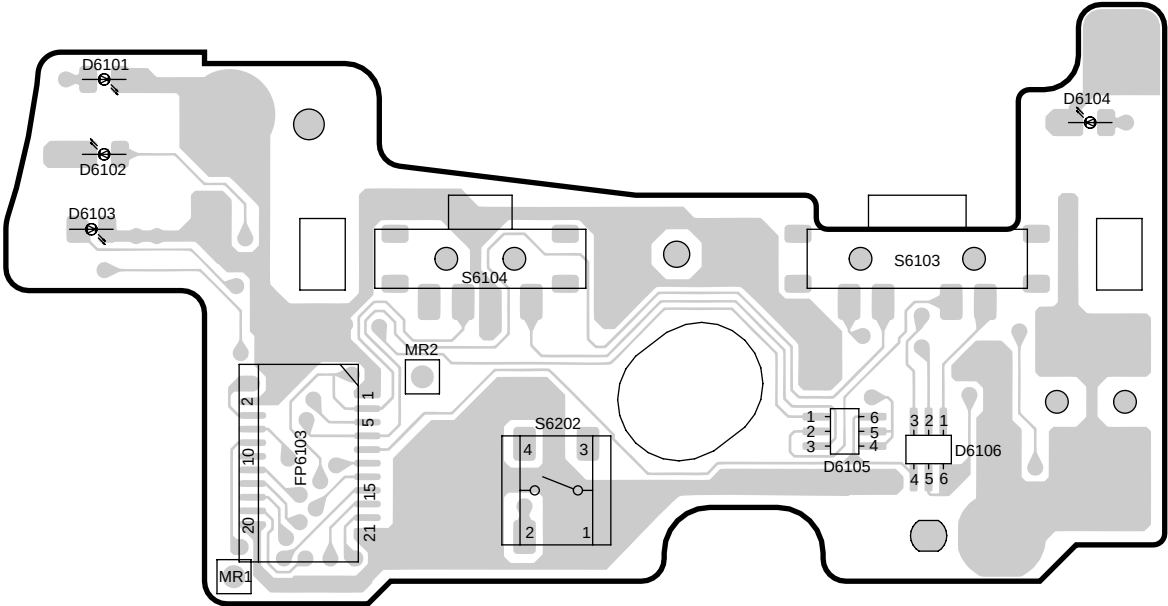
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D

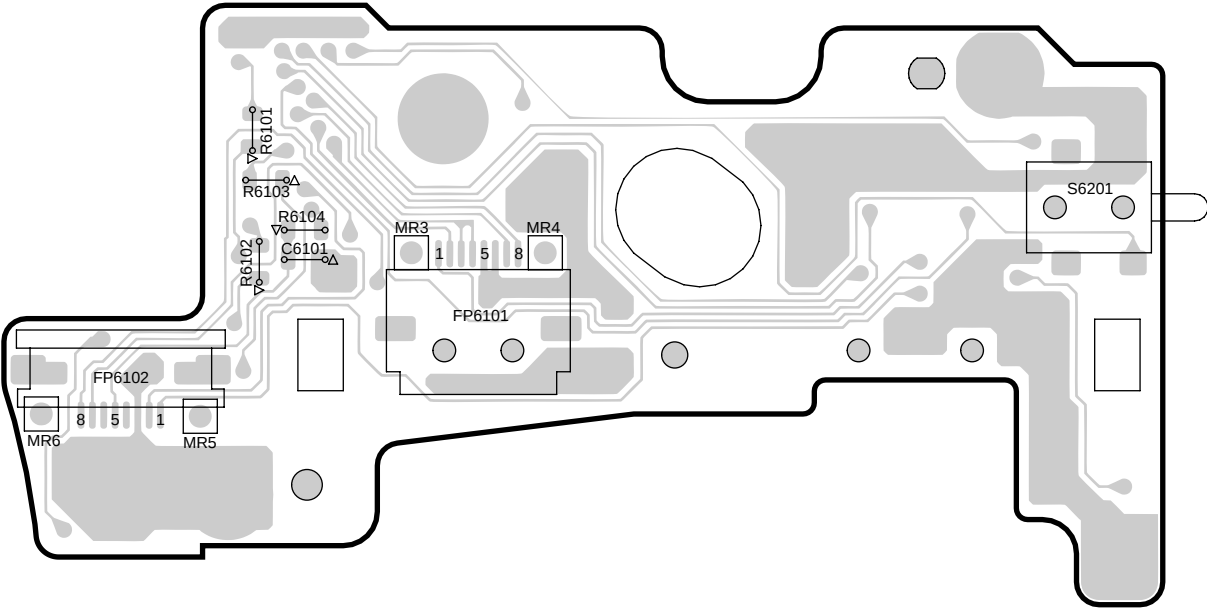
C

B

A



(COMPONENT SIDE)



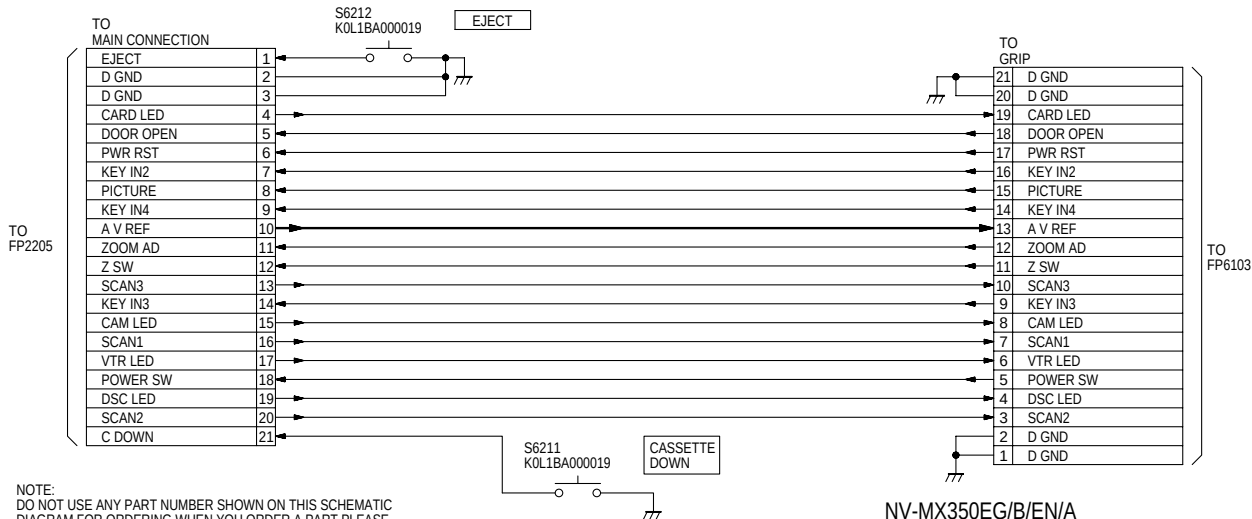
(FOIL SIDE)

4

A



(GRIP FLEX.CARD)



NV-MX350EG/B/EN/A
GRIP FLEX.CARD SCHEMATIC DIAGRAM

1

2

3

4

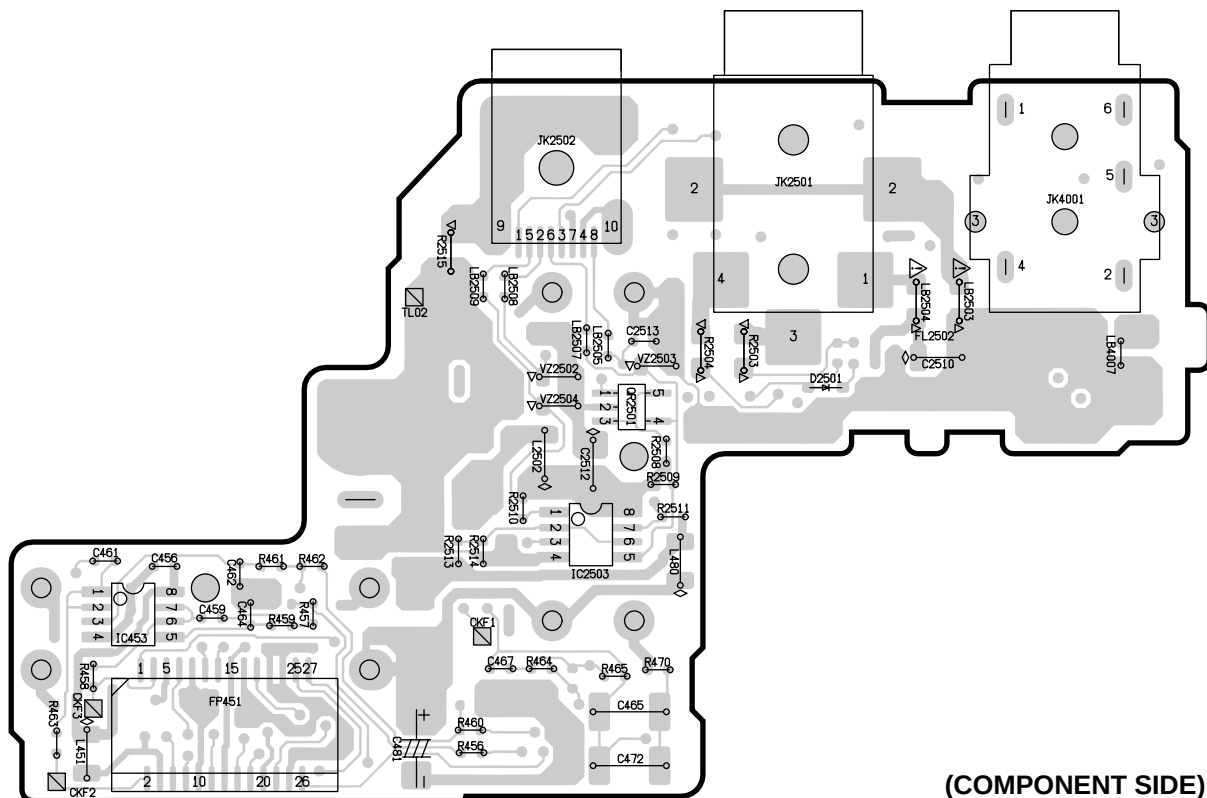
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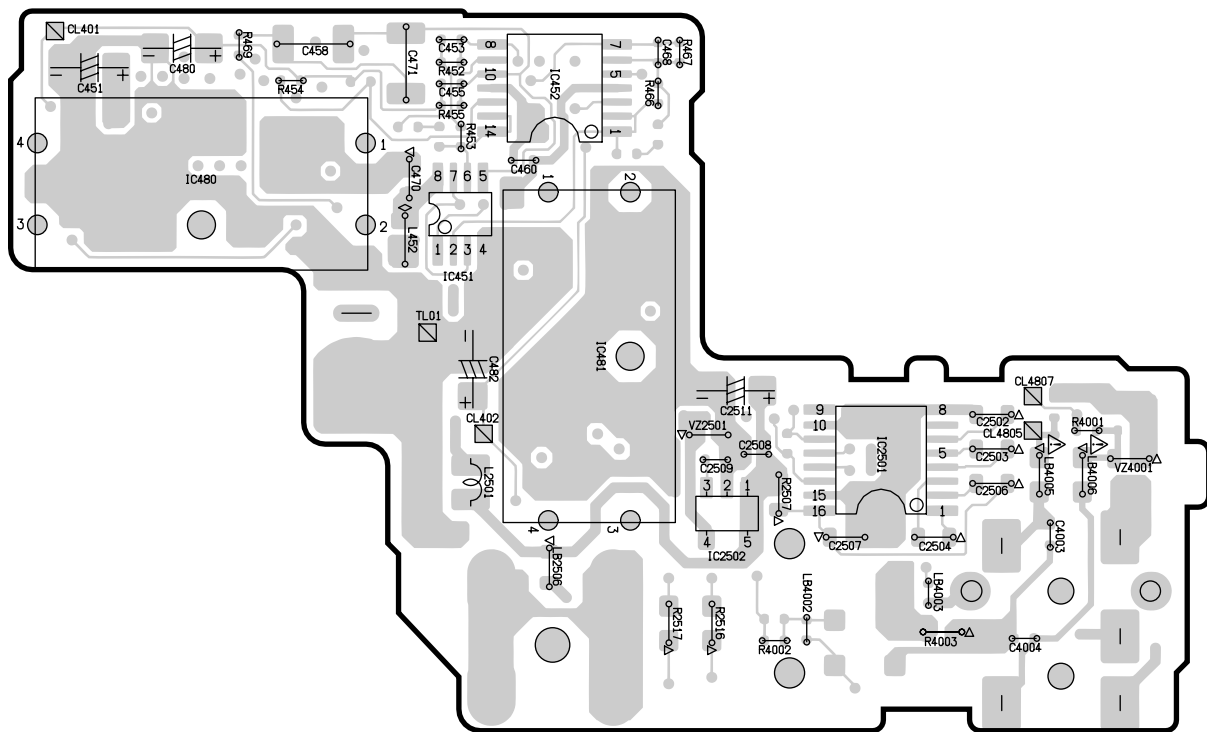
COMPONENTS IDENTIFIED WITH THE MARK Δ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



(COMPONENT SIDE)



NV-MX350EG/B/EN/A
GYRO C.B.A. (FOIL SIDE)

➡:VIDEO MAIN SIGNAL PATH
➡:AUDIO MAIN SIGNAL PATH

G

F

E

D

C

B

A

USB/MINI
SYSTEM
JK2502
K2HZ108B0004

DIGITAL
STILL
PICTURE
JK2501
K2HC104E0002

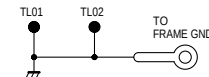
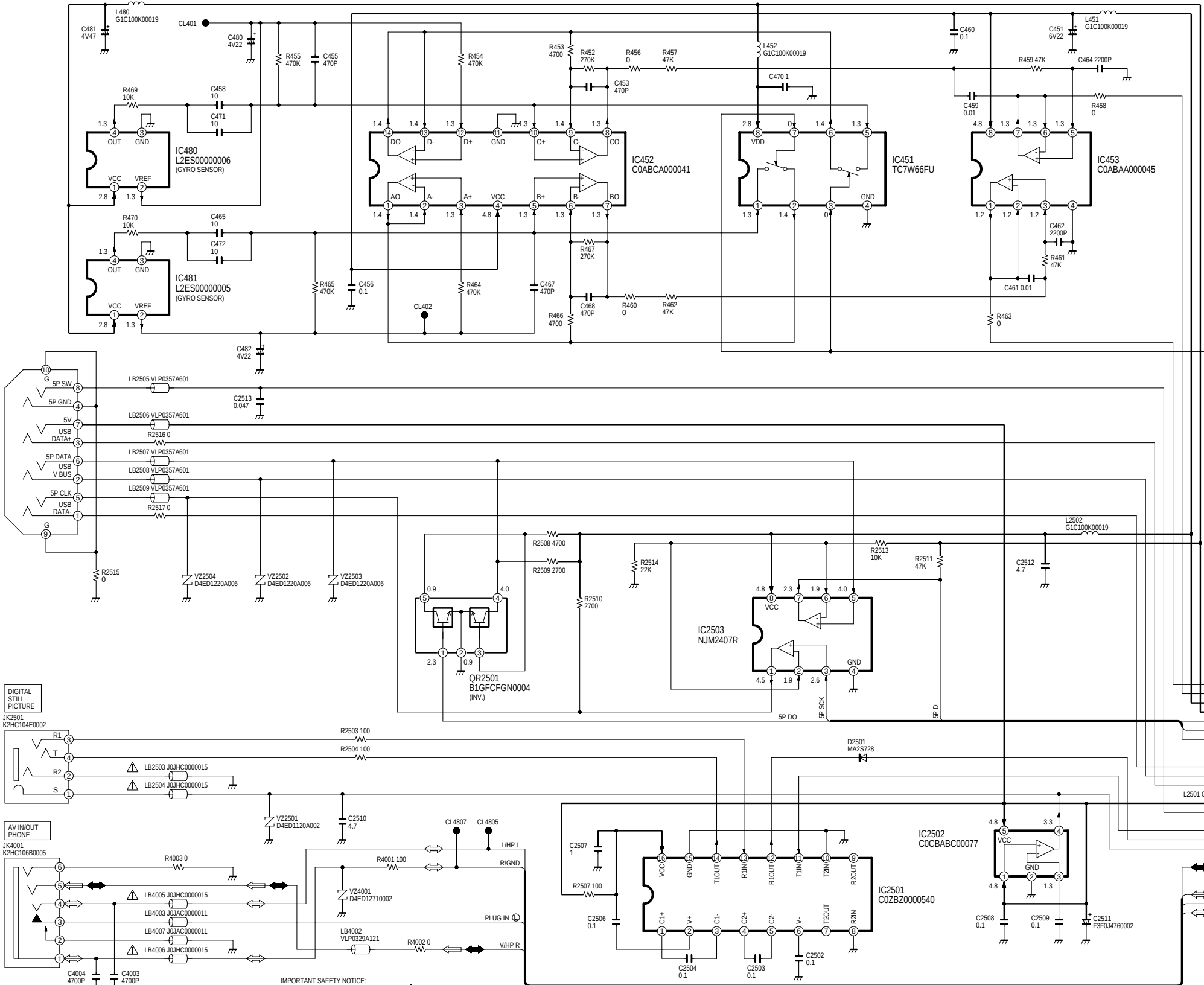
AV IN/OUT
PHONE
JK4001
K2HC106B0005

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ▲ HAVE THE
SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING
ANY OF THESE COMPONENTS ONLY THE SAME TYPE.

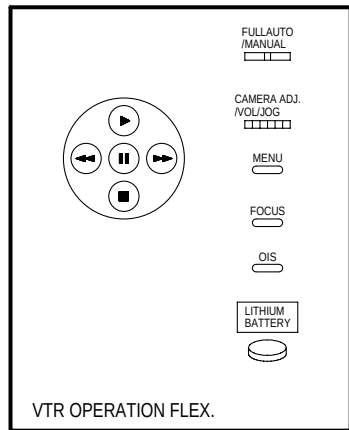
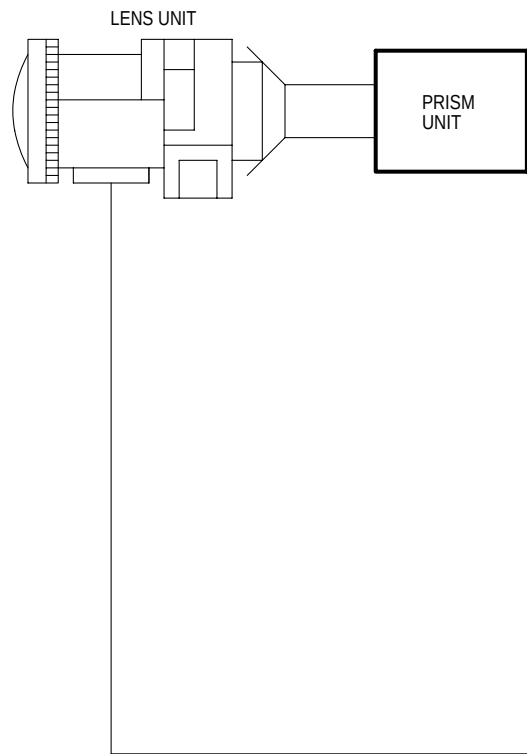
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE THE MEASUREMENT MODE
OF THE DC VOLTAGE IN THEBRACKETS(ON THIS DIAGRAM IS RECORD MODE (SP MODE)

NV-MX350EG/B/EN/A
GYRO SCHEMATIC DIAGRAM



G
F
E
D
C
B
A



PS201		
1	PT	
2	PT	
3	15V	
4	15V	
5	H2 G	
6	H1 G	
7	A GND	
8	SIG R	
9	A GND	
10	SIG G	
11	A GND	
12	R	
13	H1 B	
14	H2 B	
15	SUB B	
16	A GND	
17	SIG B	
18	A GND	
19	A GND	
20	V4 RB	
21	V3 RB	
22	V2 RB	
23	V1 RB	
24	A GND	
25	A GND	
26	A GND	
27	SUB G	
28	V1 G	
29	V2 G	
30	V3 G	
31	V4 G	
32	SUB R	
33	H1 R	
34	H2 R	

FP702		
1	F MR B	
2	F MR GND	
3	F MR GND	
4	F MR A	
5	F MR VCC	
6	Y PSD2	
7	X PSD1	
8	X PSD2	
9	PSD 5V	
10	Y PSD1	
11	PSD LED	
12	LED GND	
13	Y DRV(-)	
14	Y DRV(+)	
15	X DRV(-)	
16	X DRV(+)	
17	Z ABS	
18	Z LED	
19	Z ENC VCC	
20	ALC M(-)	
21	ALC M(+)	
22	ALC CNT(+)	
23	H IN(+)	
24	H OUT(+)	
25	H IN(-)	
26	H OUT(-)	
27	ALC CNT(-)	
28		
29	FM T(+)	
30	FM T(-)	
31	ZAN	
32	ZBN	
33	ZAP	
34	ZBP	
35	Z MR VCC	
36	Z MR A	
37	Z MR GND	
38	Z MR GND	
39	Z MR B	

FP301		
1	LI BATT(+)	
2		
3		
4		
5	STOP	
6	SCAN4	
7	FF	
8	REW	
9	PAUSE	
10	PLAY	
11	MENU SEL2	
12	MENU SET	
13	D GND	
14	MENU SEL1	
15	WB	
16	AF/MF	
17	MF L1	
18	MF L2	
19	MF VCC	
20	FULL/AUTO	
21	AE LOCK	
22	OIS	
23	MENU	
24	D GND	
25	LCD OPEN	

CAMERA C.B.A.

CAM TEST			120	1	CAM F VCC
E2 CLK	119	2	UART O		
E2 DATA	118	3	UART I		
CAM VD	117	4			
EVR SBO	116	5			
EVR SBI	115	6	EXMOD1		
EVR SCK	114	7	FNO		
AFST	113	8	BST TEST		
D GND	112	9	ND FNO		
D GND	111	10	D GND		
D GND	110	11	D GND		
A3V(2)	109	12	CAM -8V		
A3V(2)	108	13	CAM 15V		
	107	14	CAM 15V		
	106	15	D GND		
D GND	105	16	D GND		
D GND	104	17	D GND		
INV	103	18	D GND		
CLK CAM	102	19	INH		
CLK45	101	20	Y DATA10		
SCAN4	100	21	Y DATA11		
F ADJ	99	22	Y DATA12		
KEY IN4	98	23	Y DATA13		
KEY IN3	97	24	Y DATA14		
KEY IN2	96	25	Y DATA15		
KEY IN1	95	26	Y DATA16		
LCD OPEN	94	27	Y DATA17		
LI BATT(+)	93	28	C DATA10		
KEY IN5	92	29	C DATA11		
CHAEND	91	30	C DATA12		
CHARGE	90	31	C DATA13		
TRIGEND	89	32	C DATA14		
SENSOR	88	33	C DATA15		
F OPEN	87	34	C DATA16		
Z SW	86	35	C DATA17		
CAM TDI	85	36	ZOOM AD		
CAM TDO	84	37	ZOOM V REF		
TMS	83	38	MEGA PIX		
TCK	82	39	MEGA DSTB		
CAM D3 OFF	81	40	MEGA BUSY		
CAM SCLK	80	41	MEGA BEND		
V C DATA	79	42	CAM RTN		
C V DATA	78	43	CAM RST		
VTR T	77	44	RTN FLD		
CAM O	76	45	WINK END		
NOREG GND	75	46	MEMO END		
NOREG GND	74	47	REG D3V		
NOREG	73	48	REG D3V		
NOREG	72	49	REG D1.8V		
REG A5V	71	50	REG D1.8V		
REG A5V	70	51	A GND		
SHOE P ON	69	52	A GND		
SHOE DET	68	53	A GND		
SHOE DATA	67	54	A GND		
SHOE CLK	66	55	LENS 3V		
SS DET	65	56	REG 3.1V		
	64	57	REG 3.1V		
	63	58			
GYRO X	62	59	IR DET		
GYRO Y	61	60	SENS SW		

CAM TEST			120	1	CAM F VCC
E2 CLK	119	2	UART O		
E2 DATA	118	3	UART I		
CAM VD	117	4			
EVR SBO	116	5			
EVR SBI	115	6	EXMOD1		
EVR SCK	114	7	FNO		
AFST	113	8	BST TEST		
D GND	112	9	ND FNO		
D GND	111	10	D GND		
D GND	110	11	D GND		
A3V(2)	109	12	CAM -8V		
A3V(2)	108	13	CAM 15V		
	107	14	CAM 15V		
	106	15	D GND		
D GND	105	16	D GND		
D GND	104	17	D GND		
INV	103	18	D GND		
CLK CAM	102	19	INH		
CLK45	101	20	Y DATA10		
SCAN4	100	21	Y DATA11		
F ADJ	99	22	Y DATA12		
KEY IN4	98	23	Y DATA13		
KEY IN3	97	24	Y DATA14		
KEY IN2	96	25	Y DATA15		
KEY IN1	95	26	Y DATA16		
LCD OPEN	94	27	Y DATA17		
LI BATT(+)	93	28	C DATA10		
KEY IN5	92	29	C DATA11		
CHAEND	91	30	C DATA12		
CHARGE	90	31	C DATA13		
TRIGEND	89	32	C DATA14		
SENSOR	88	33	C DATA15		
F OPEN	87	34	C DATA16		
Z SW	86	35	C DATA17		
CAM TDI	85	36	ZOOM AD		
CAM TDO	84	37	ZOOM V REF		
TMS	83	38	MEGA PIX		
TCK	82	39	MEGA DSTB		
CAM D3 OFF	81	40	MEGA BUSY		
CAM SCLK	80	41	MEGA BEND		
V C DATA	79	42	CAM RTN		
C V DATA	78	43	CAM RST		
VTR T	77	44	RTN FLD		
CAM O	76	45	WINK END		
NOREG GND	75	46	MEMO END		
NOREG GND	74	47	REG D3V		
NOREG	73	48	REG D3V		
NOREG	72	49	REG D1.8V		
REG A5V	71	50	REG D1.8V		
REG A5V	70	51	A GND		
SHOE P ON	69	52	A GND		
SHOE DET	68	53	A GND		
SHOE DATA	67	54	A GND		
SHOE CLK	66	55	LENS 3V		
SS DET	65	56	REG 3.1V		
	64	57	REG 3.1V		
	63	58			
GYRO X	62	59	IR DET		
GYRO Y	61	60	SENS SW		

MAIN C.B.A.

TALLY			FP4001
D 5V	1		
D GND	2		
D GND	3		
D GND	4		
D GND	5		
D GND	6		
D GND	7		
EXT MIC	8		
MIC R2	9		
MIC R	10		
MIC 5V	11		
MIC L	12		
MIC L2	13		
MIC GND	14		
MIC GND	15		
MIC GND	16		
REMOTE CTL	17		
IR OUT	18		
SUB REC	19		
DV GND	20		
DV GND	21		
TPA(-)	22		
TPB(+)	23		
TPA(+)	24		
TPB(-)	25		
TPB(-)	26		
AV GND	27		
S Y I/O	28		
S PLUG	29		
S C I/O	30		
D GND	31		
D GND	32		
DEW	33		
ST NOREG	34		
ST NOREG	35		
REG 5V	36		
REG 5V	37		
F ADJ	38		
SENSOR	39		
TRIGEND	40		
CHAEND	41		
CHARGE	42		
F OPEN	43		
NOREG GND	44		
NOREG GND	45		

EJECT SW			FP2205
D GND	1		
D GND	2		
D GND	3		
CARD LED	4		
DOOR OPEN	5		
PWR RST	6		
KEY IN2	7		
PICTURE	8		
KEY IN4	9		
A V REF	10		
ZOOM AD	11		
Z SW	12		
	13		
KEY IN3	14		
CAM LED	15		
SCAN1	16		
VTR LED	17		
POWER SW	18		
DSC LED	19		
SCAN2	20		
C DOWN	21		

GRIP FLEX.

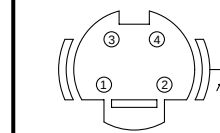
FP4901		
1	IR OUT	
2	REMOTE CTL	
3	MIC GND	
4	MIC GND	
5	MIC GND	
6	MIC L	
7	MIC 5V	
8	MIC R	
9	EXT MIC	
10	D GND	
11	D GND	
12	D GND	
13	D 5V	
14	TALLY	

FRONT C.B.A.

FP7001		
1	NOREG GND	
2	NOREG GND	
3	NOREG GND	
4	F OPEN	
5	CHARGE	
6	CHAEND	
7	TRIGEND	
8	SENSOR	
9	F ADJ	
10	REG 5V	
11	ST NOREG	
12	ST NOREG	
13	DEW	
14	D GND	
15	D GND	
16	S C I/O	
17	S PLUG	
18	S Y I/O	
19	AV GND	
20	DV GND	
21	TPB(-)	
22	TPA(+)	
23	TPB(+)	
24	TPA(-)	
25	DV GND	
26	SUB REC	
27	IR OUT	

FP7002		
33	F OPEN	
32	D GND	
31	PHOTO(E)	
30	PHOTO(C)	
29		
28		
27		
26		
25		
24		
23	KCENON(K)	
22	KCENON(K)	
21	KCENON(K)	
20	KCENON(K)	
19	KCENON(K)	
18	KCENON(K)	
17		
16		
15		
14		
13	GND G	
12	GND G	
11	GND G	
10		
9		
8		
7		
6	KCENON(A)	
5	KCENON(A)	
4	KCENON(A)	
3	KCENON(A)	
2	KCENON(A)	
1	KCENON(A)	

FLASH C.B.A.



FP6102		
8	S/S	
7	SCAN2	
6	CARD LED	
5	DOOR OPEN	
4	PWR RST	
3	D GND	
2	SCAN1	
1	MODE	

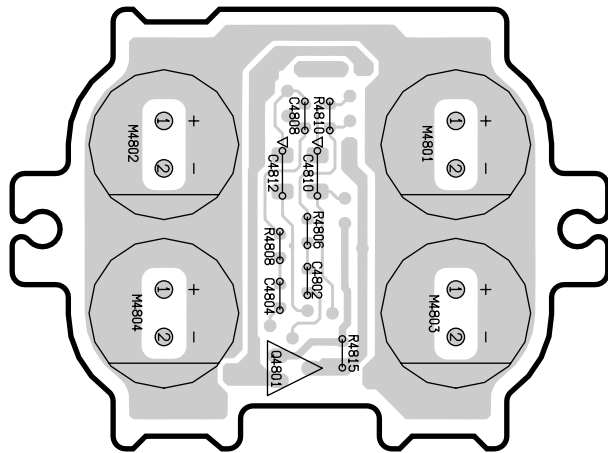
S/S POWER FLEX.

FP6101		
1	PHOTO SHOT	
2	SCAN2	
3	Z SW2	
4	Z SW1	
5	SW GND	
6	ZOOM GND	
7	ZOOM AD	
8	A V REF	

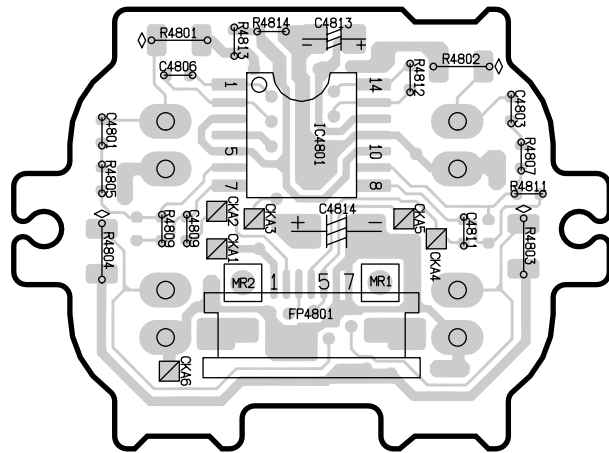
ZOOM UNIT

GRIP C.B.A.		
	• RESET	
TAPE		CARD
VOICE		PICTURE
		MPEG4

(VEK9575)



(COMPONENT SIDE)



(FOIL SIDE)

NV-MX350EG/B/EN/A
MIC UNIT

1

2

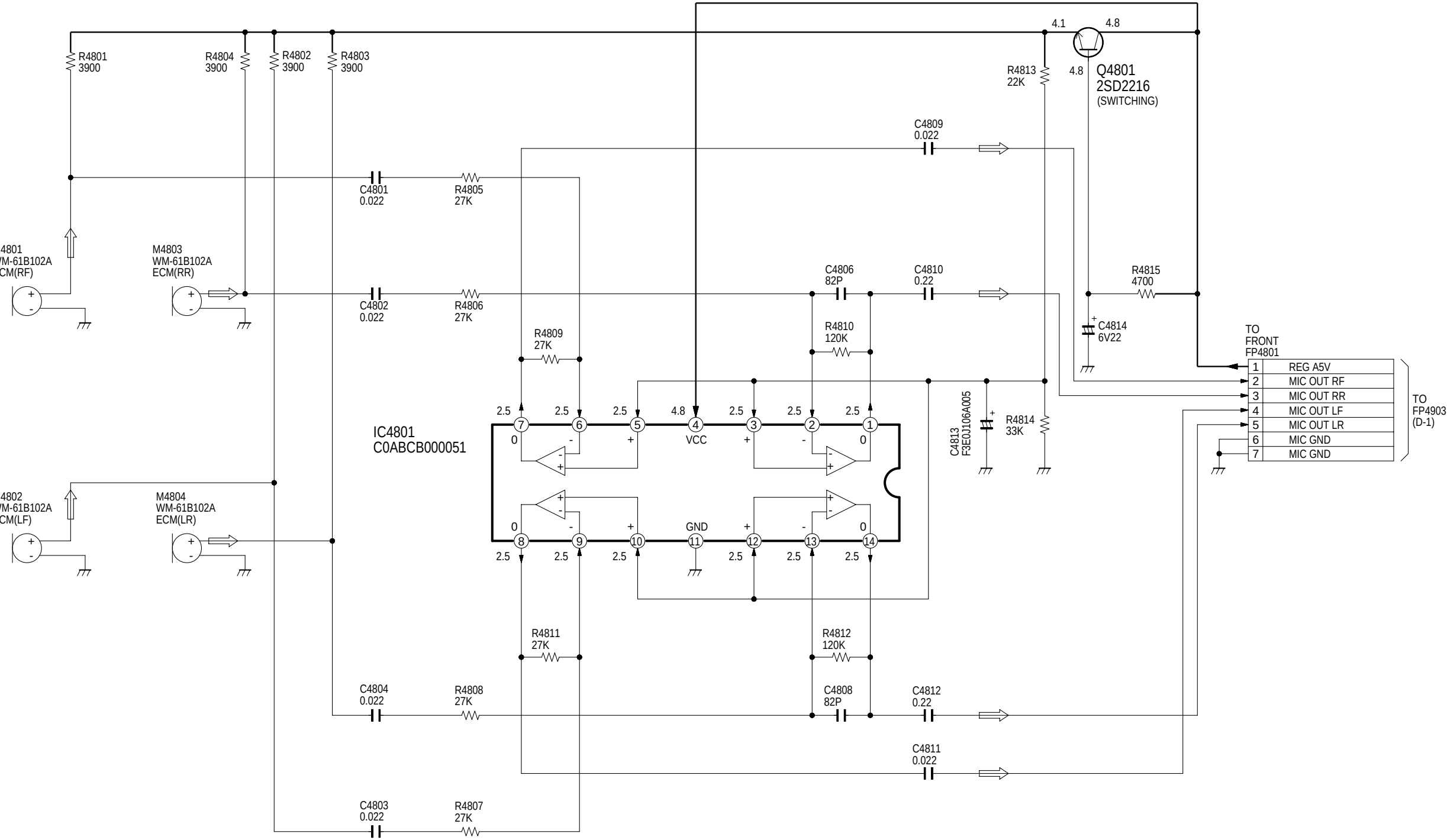
3

4

5

(MIC UNIT)

⇒:AUDIO MAIN SIGNAL PATH

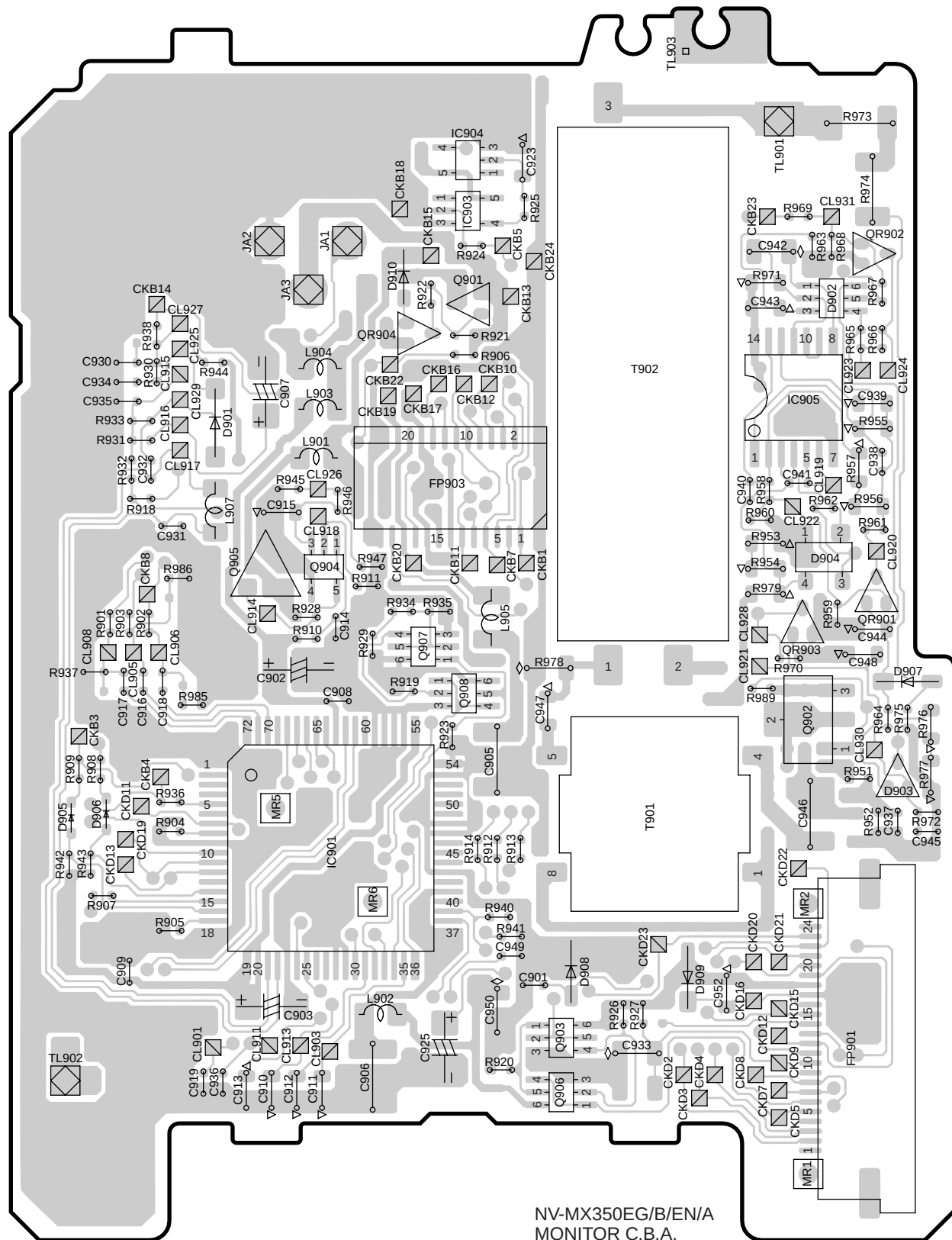


NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE
REFER TO PARTS LIST.

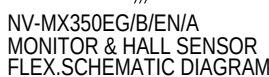
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS
DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE
BRACKETS()ON THIS DIAGRAM IS RECORD MODE.
(SP MODE)

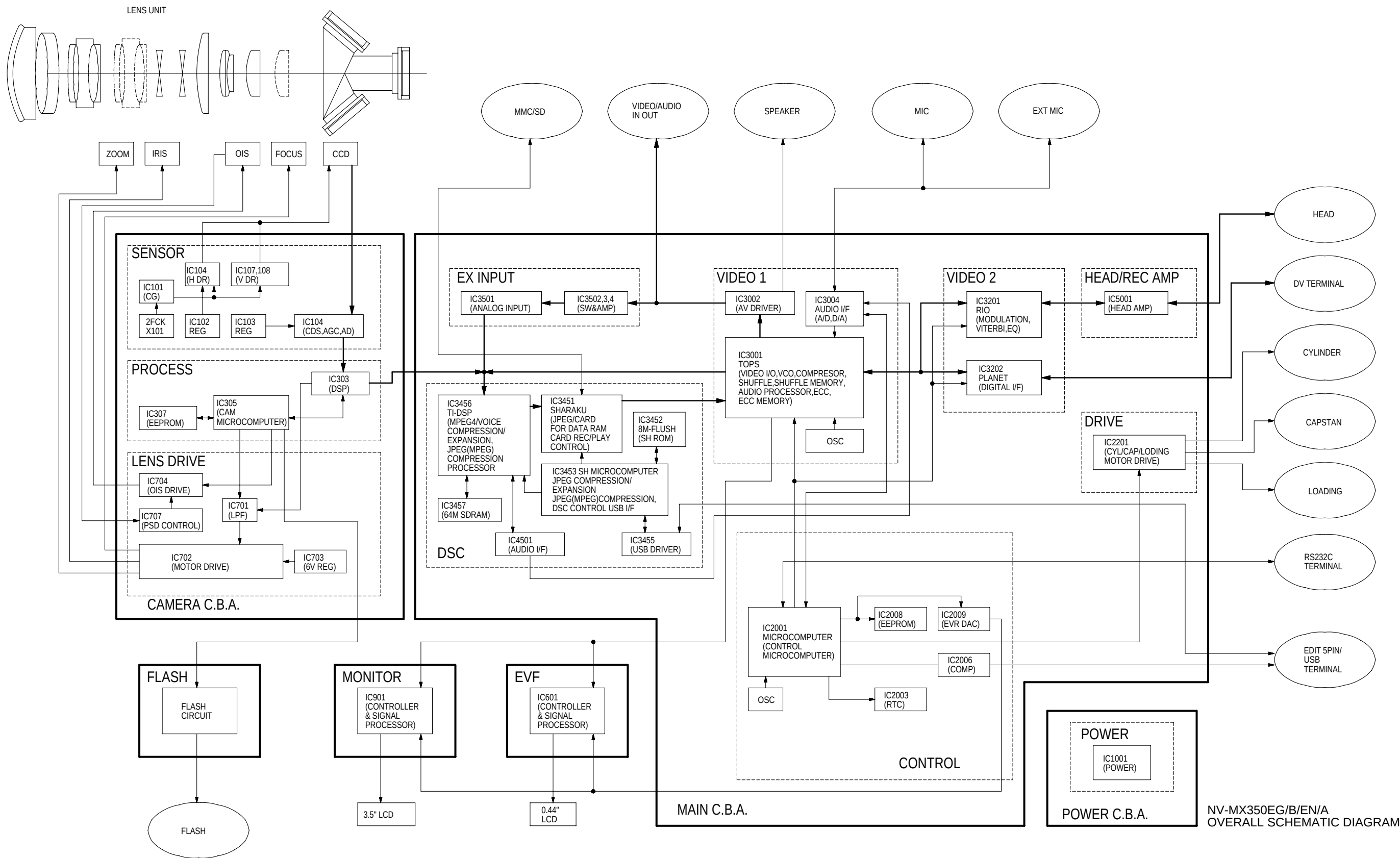
NV-MX350EG/B/EN/A
MIC UNIT SCHEMATIC DIAGRAM

F
E
D
C
B
A



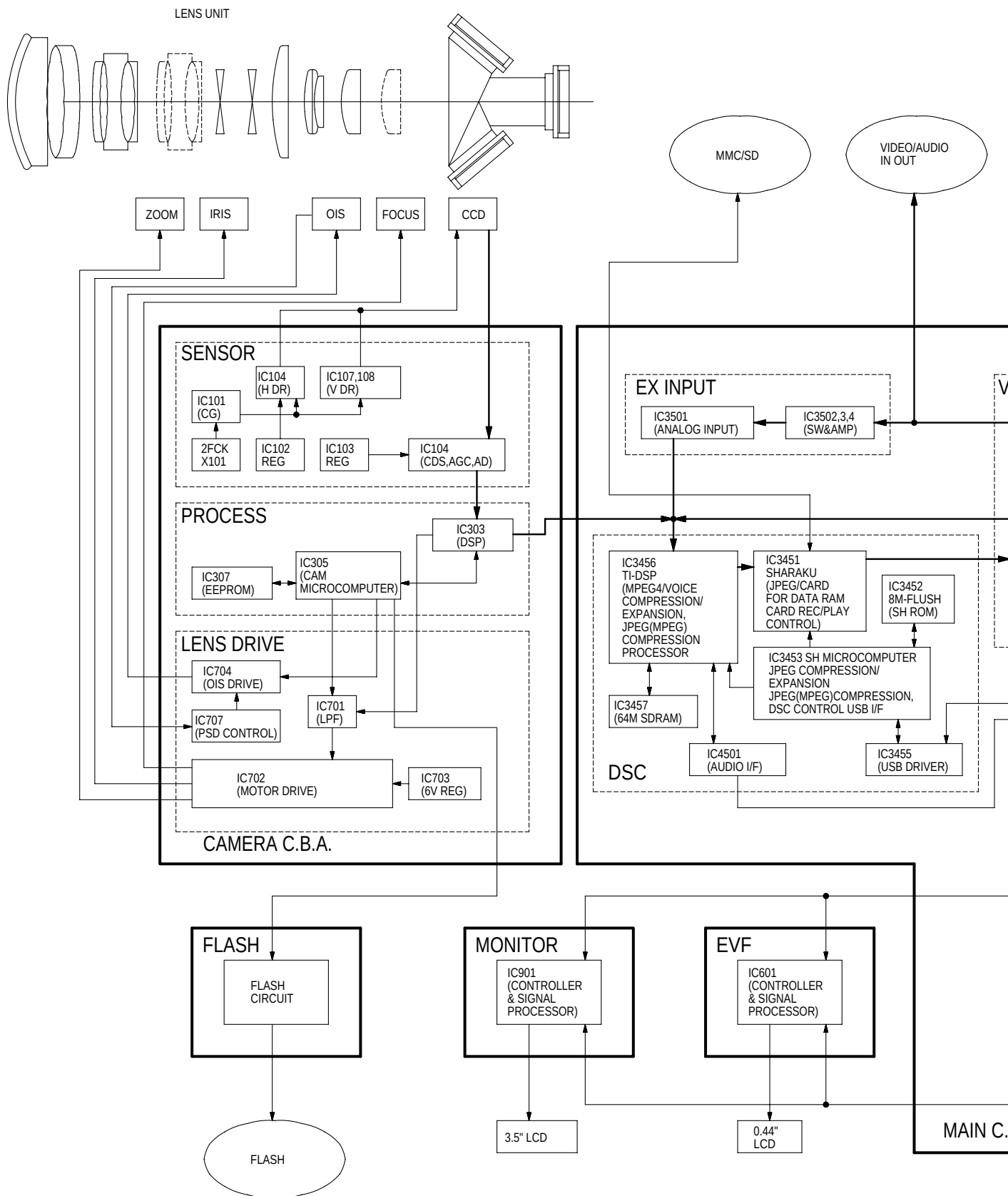
NV-MX350EG/B/EN/A
MONITOR C.B.A.

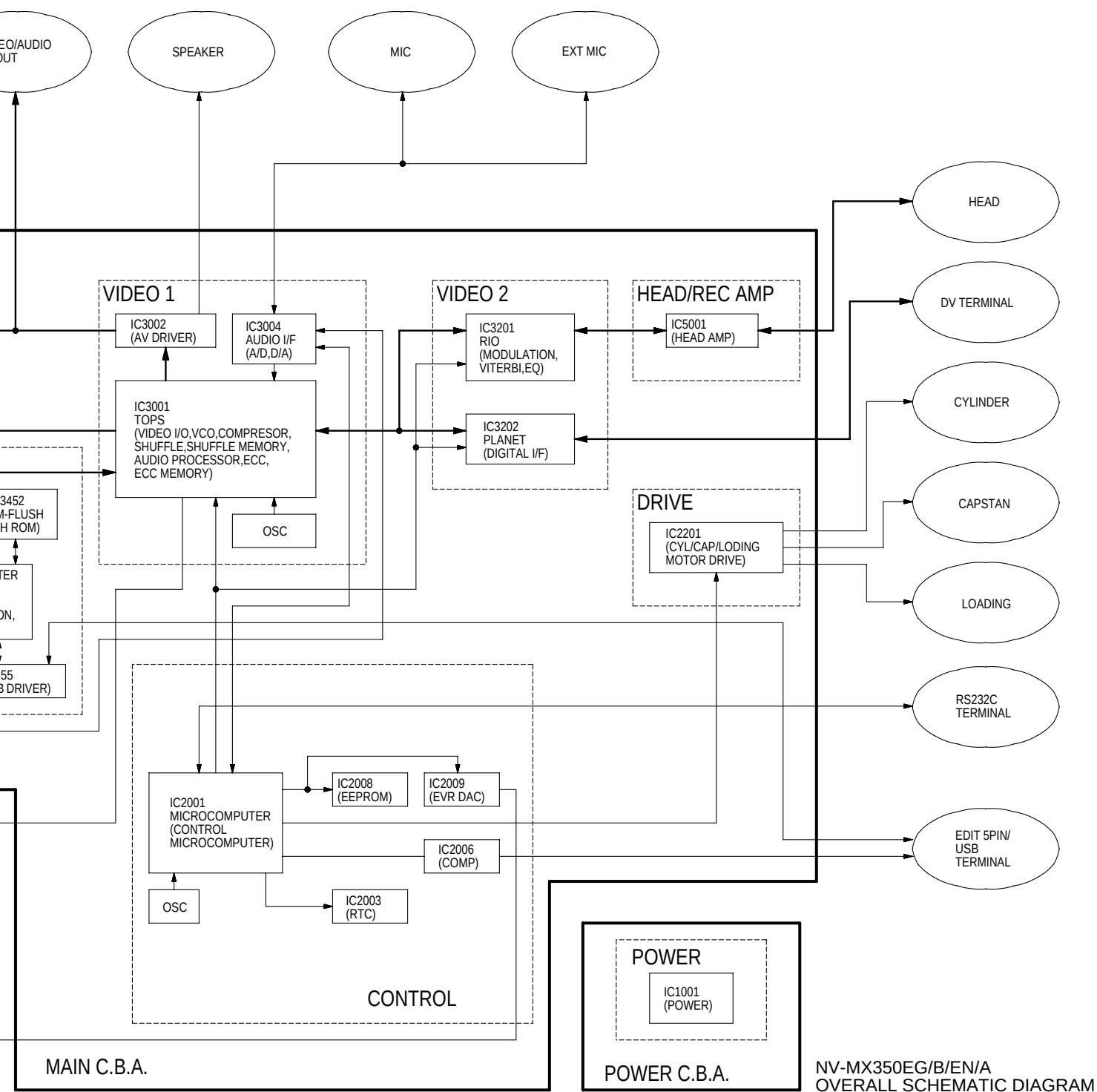




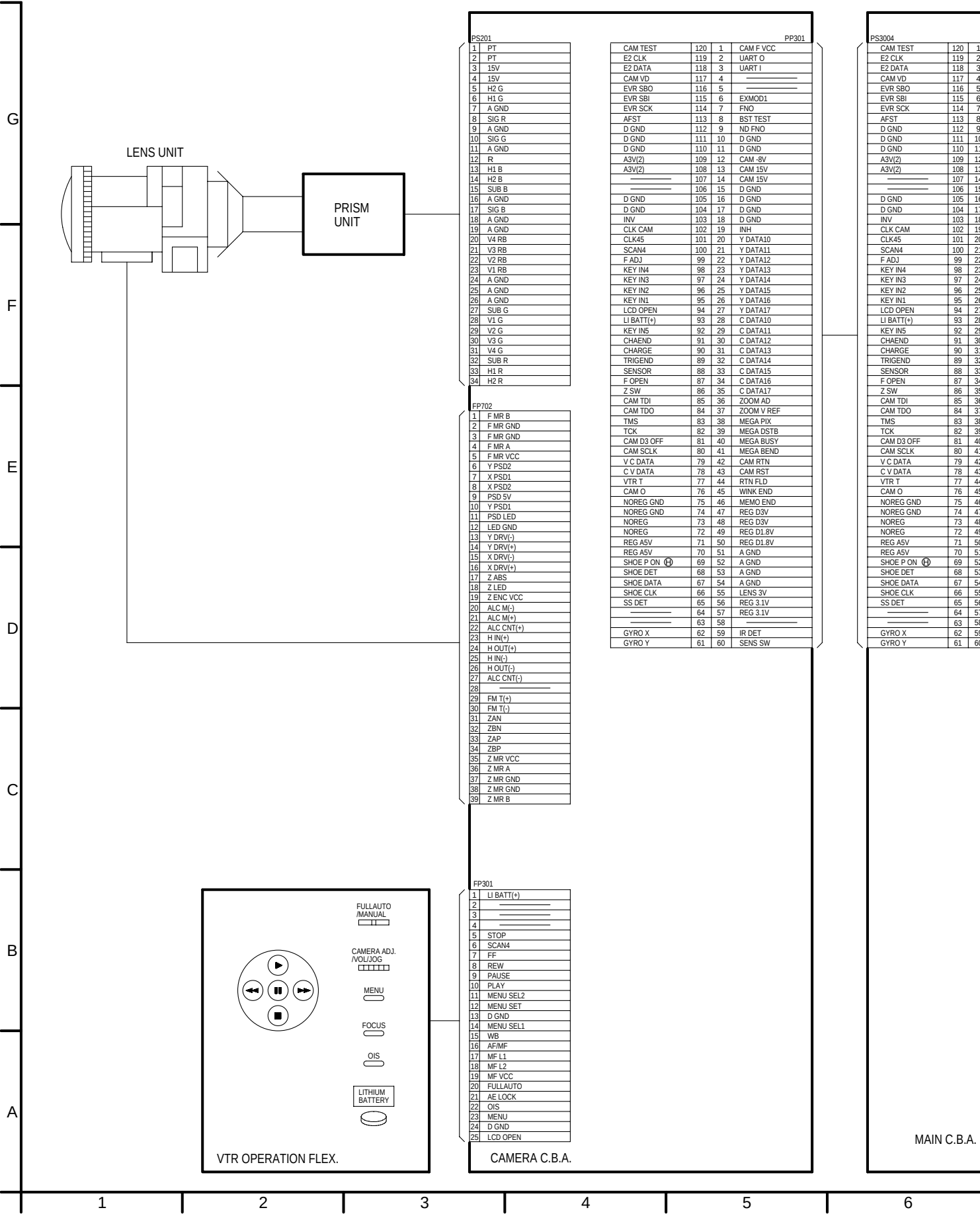
11 SCHEMATIC DIAGRAMS

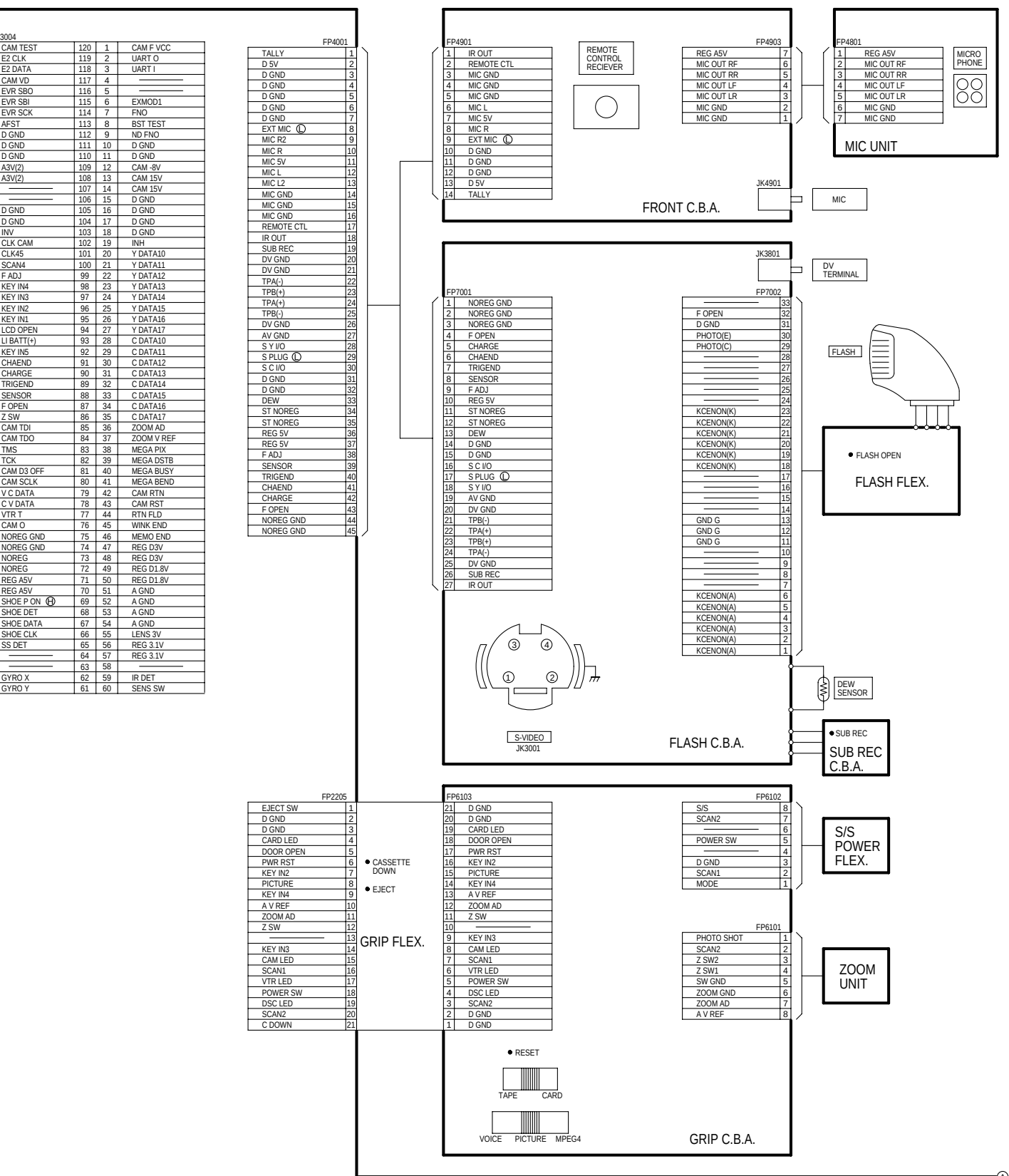
11.1. OVERALL SCHEMATIC DIAGRAM



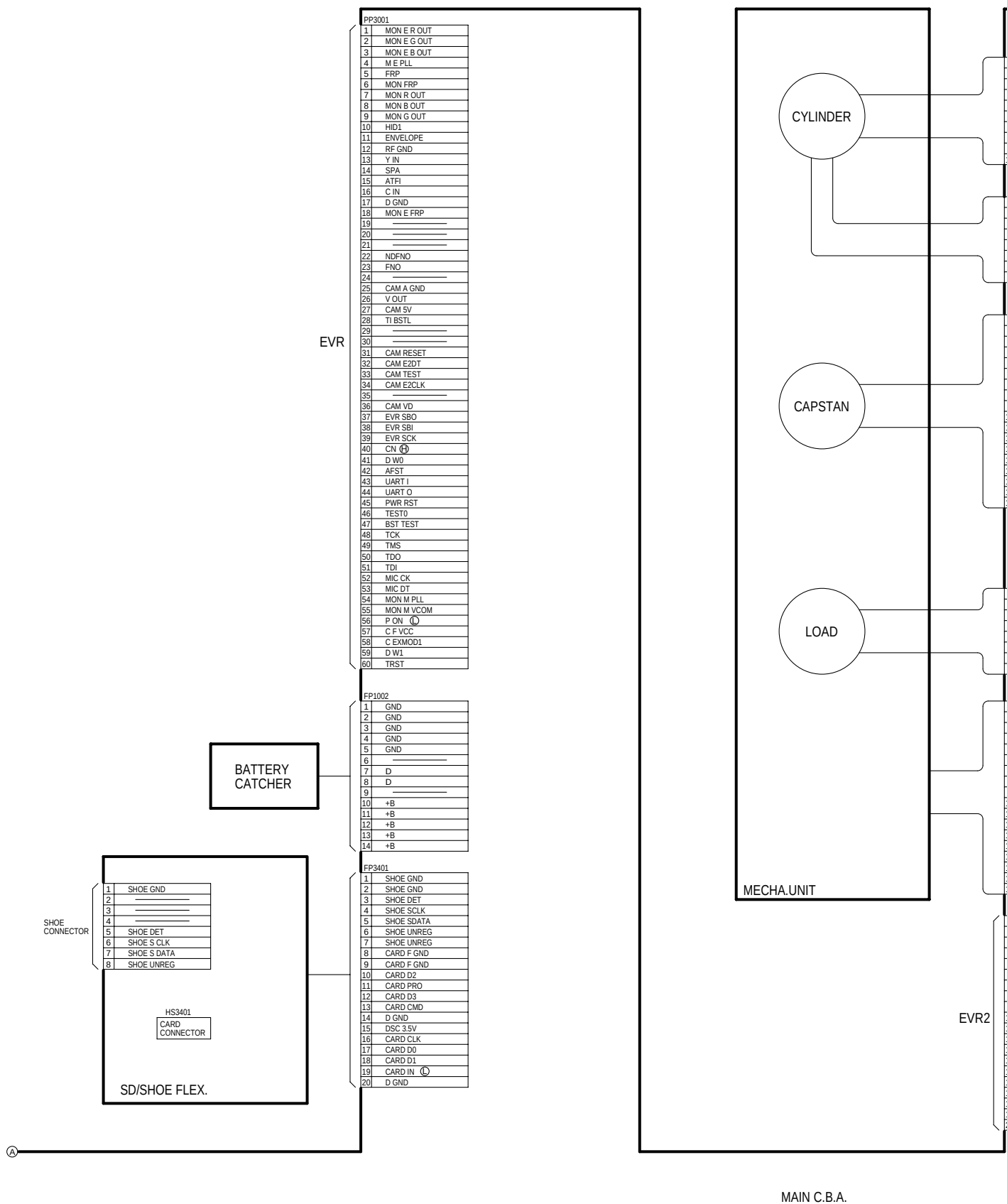


11.2. INTERCONNECTION SCHEMATIC DAIGRAM



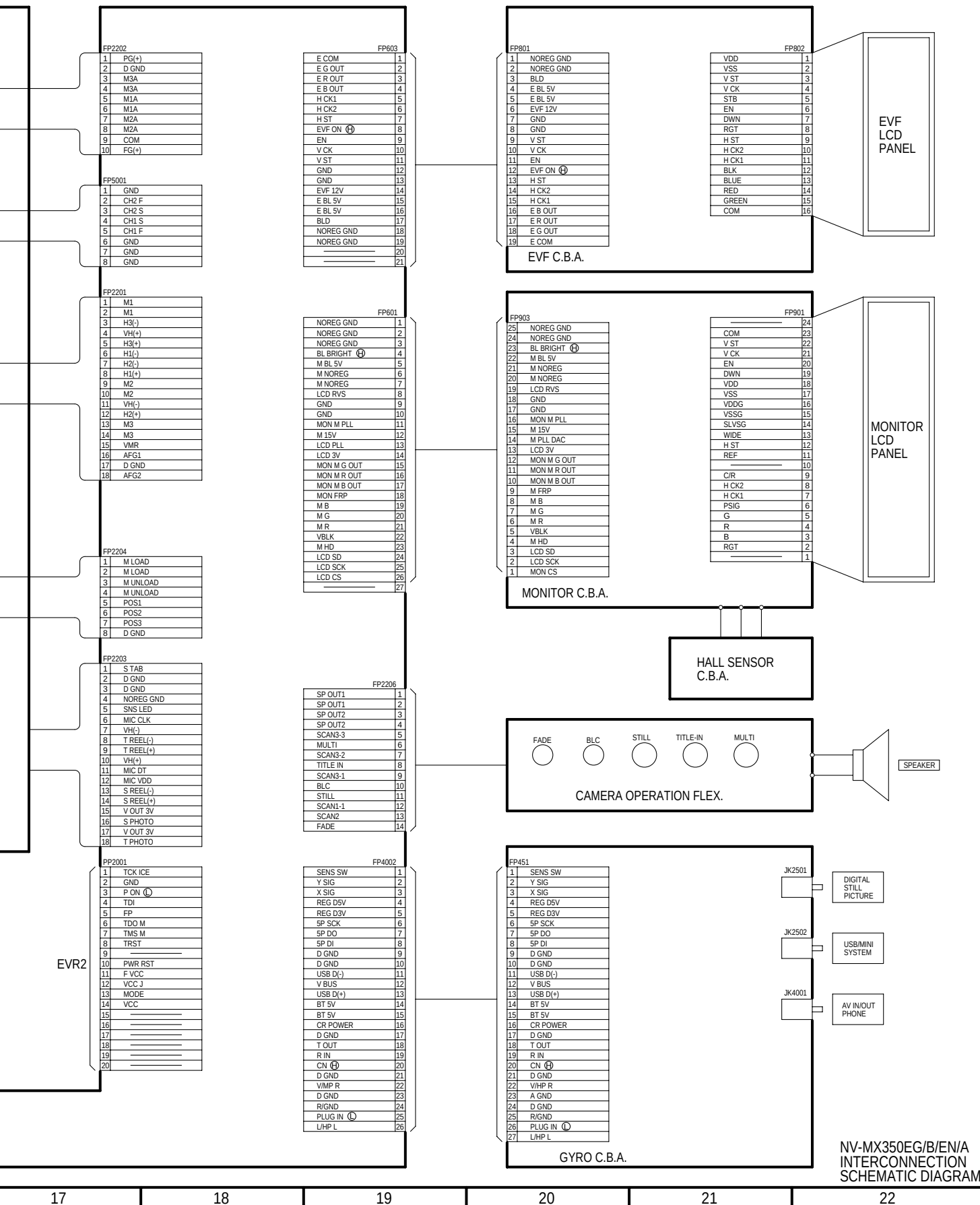


NV-MX350EG/B/EN/A INTERCONNECTION SCHEMATIC DIAGRAM

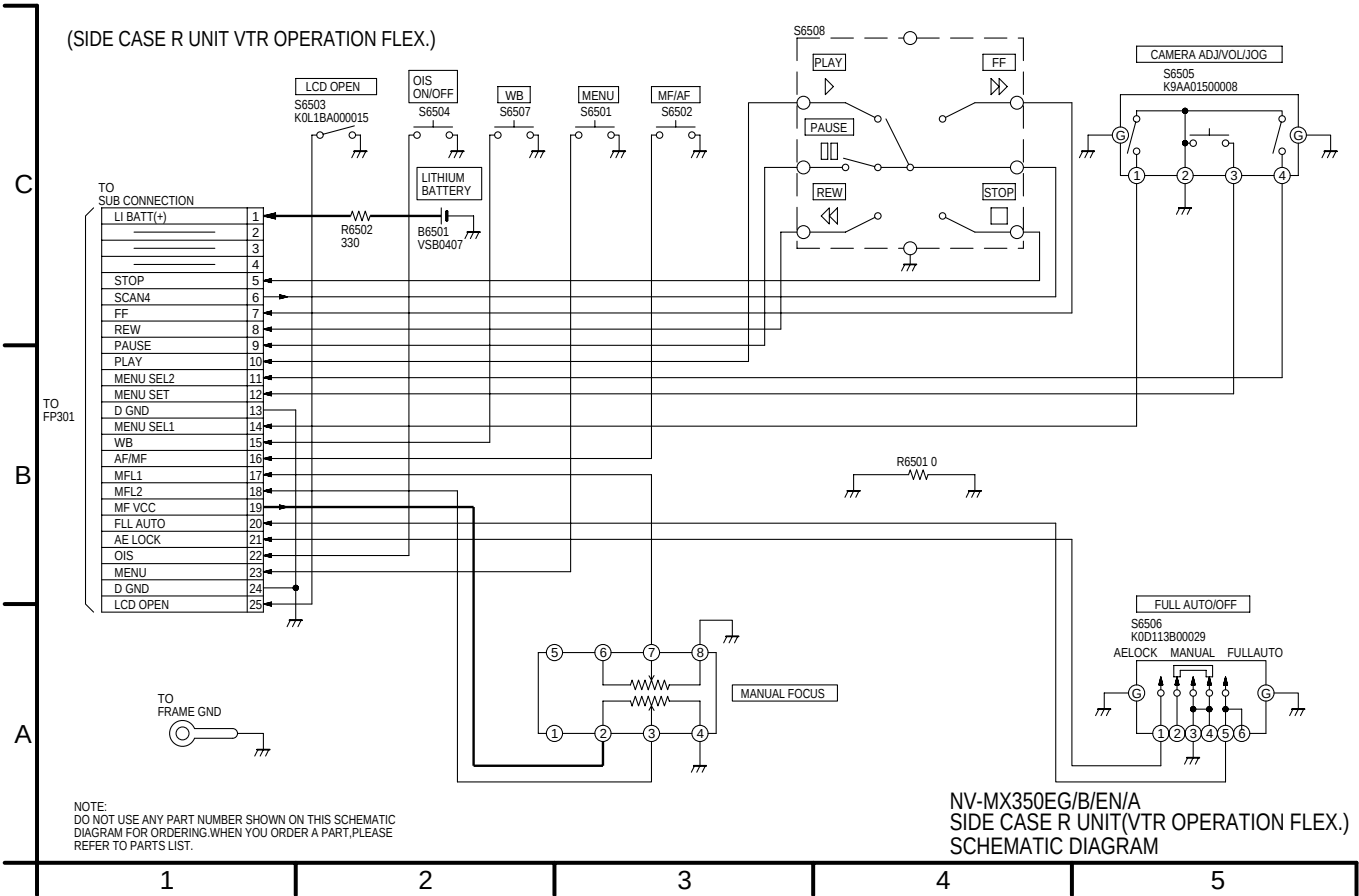


① NV-MX350EG/B/EN/A INTERCONNECTION SCHEMATIC DIAGRAM

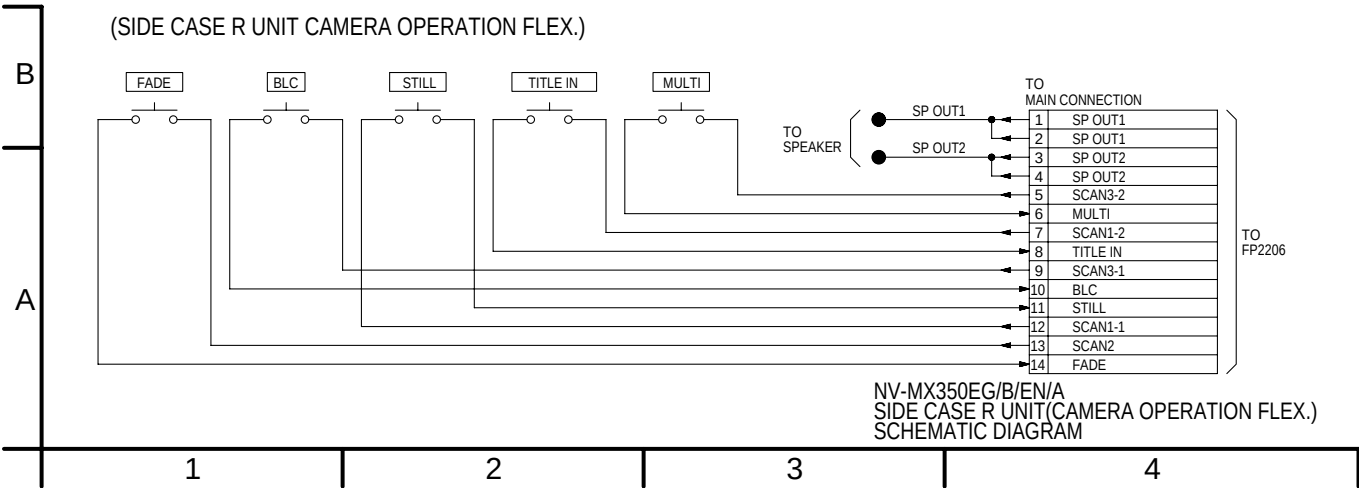
② 12 13 14 15 16 17



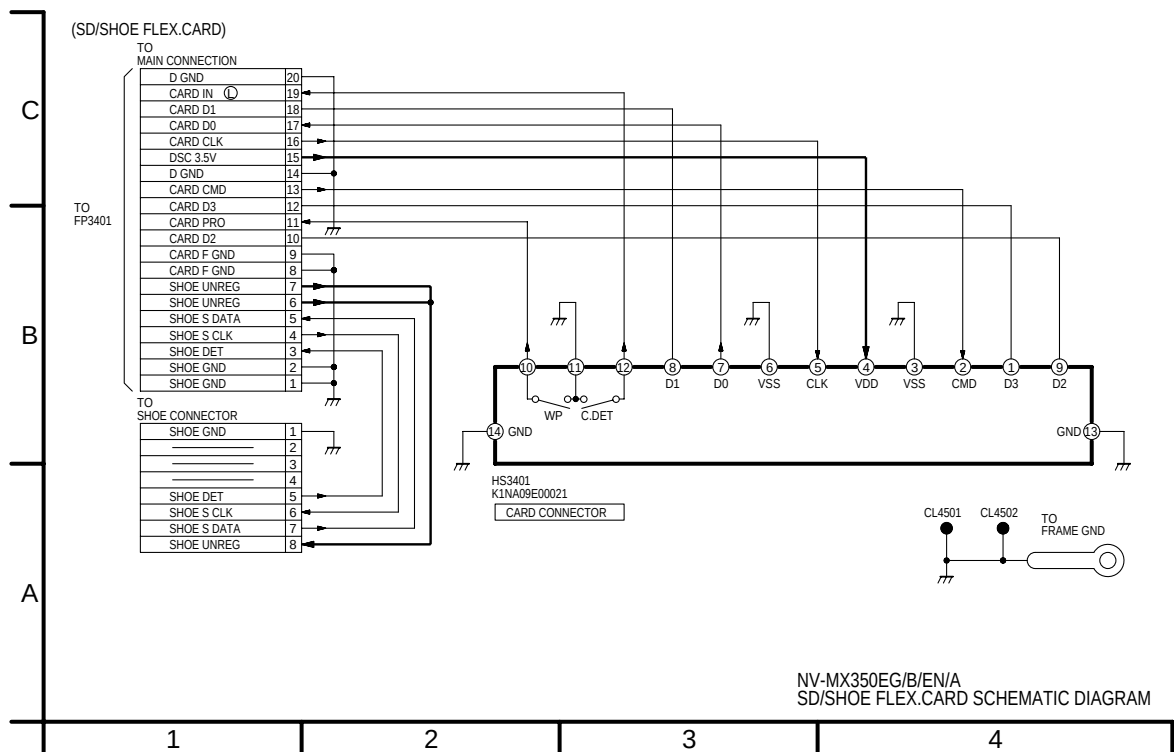
11.3. SIDE CASE R UNIT (VTR OPERATION FLEX.) SCHEMATIC DIAGRAM



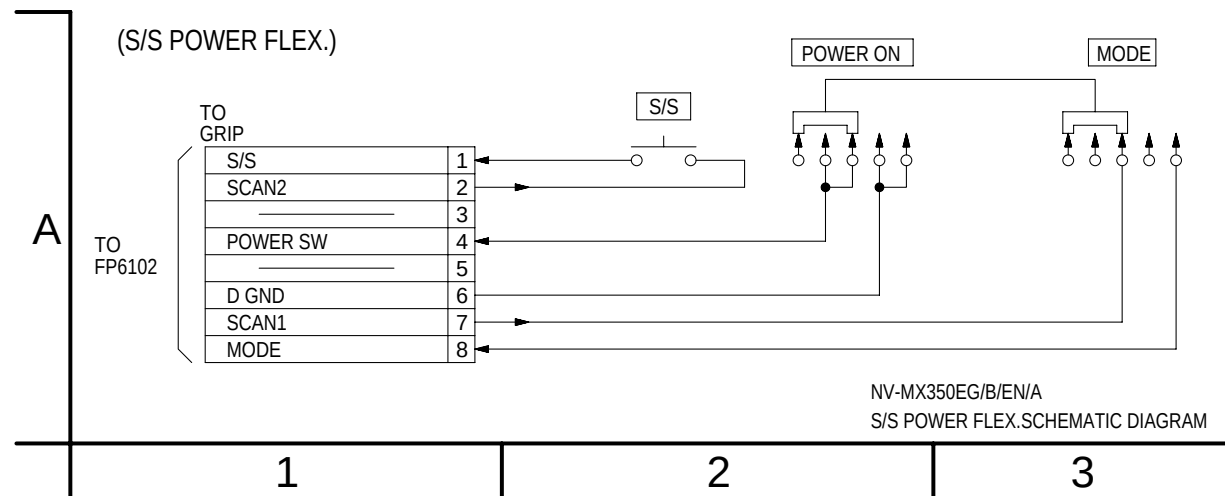
11.4. SIDE CASE R UNIT (CAMERA OPERATION FLEX.) SCHEMATIC DIAGRAM



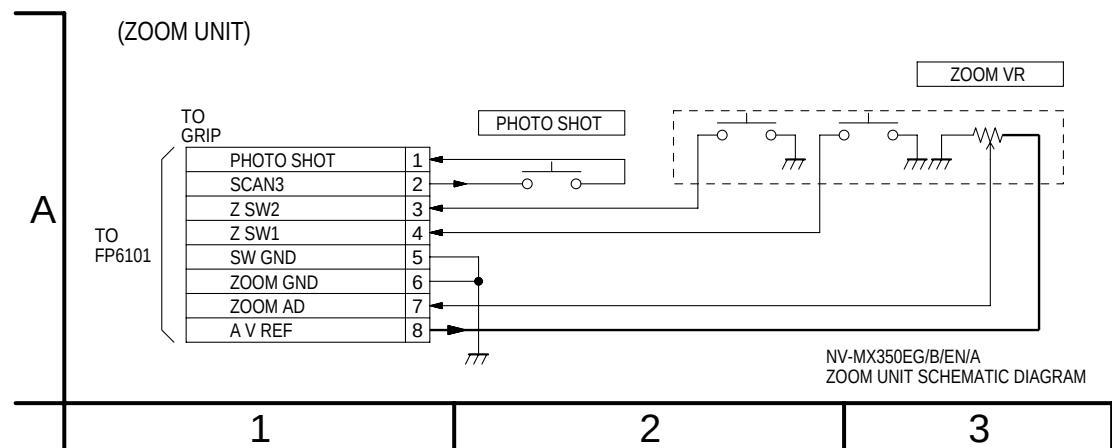
11.5. SD/SHOE FLEX.CARD SCHEMATIC DIAGRAM



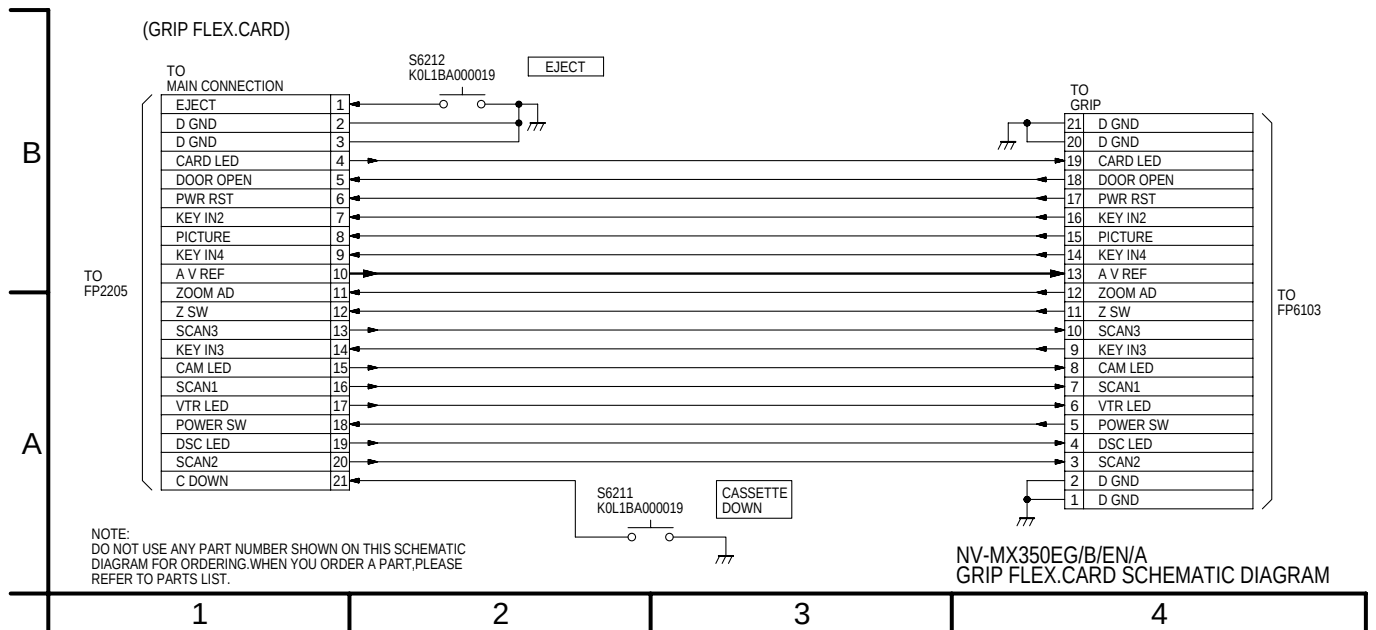
11.6. S/S POWER FLEX. SCHEMATIC DIAGRAM



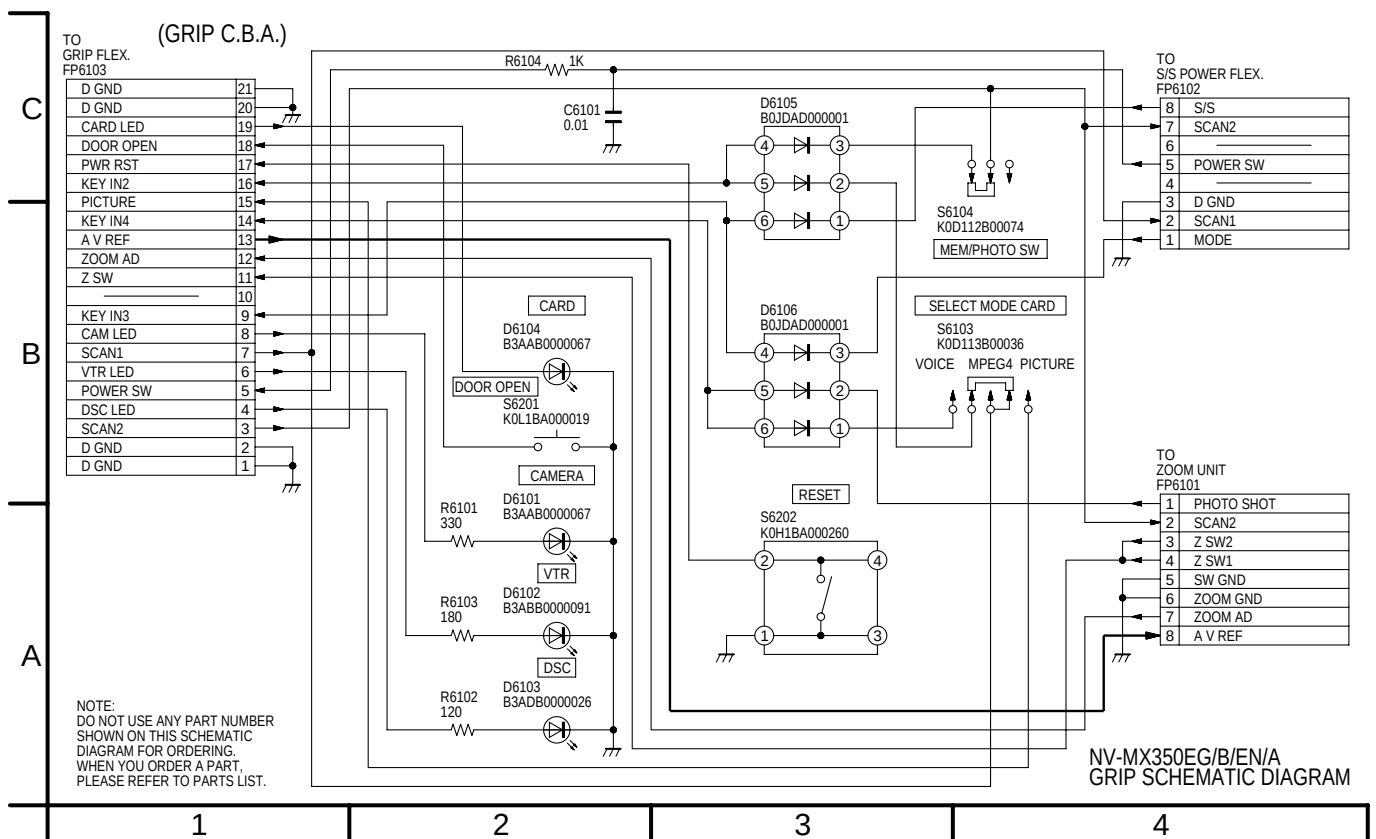
11.7. ZOOM UNIT SCHEMATIC DIAGRAM



11.8. GRIP FLEX. CARD SCHEMATIC DIAGRAM

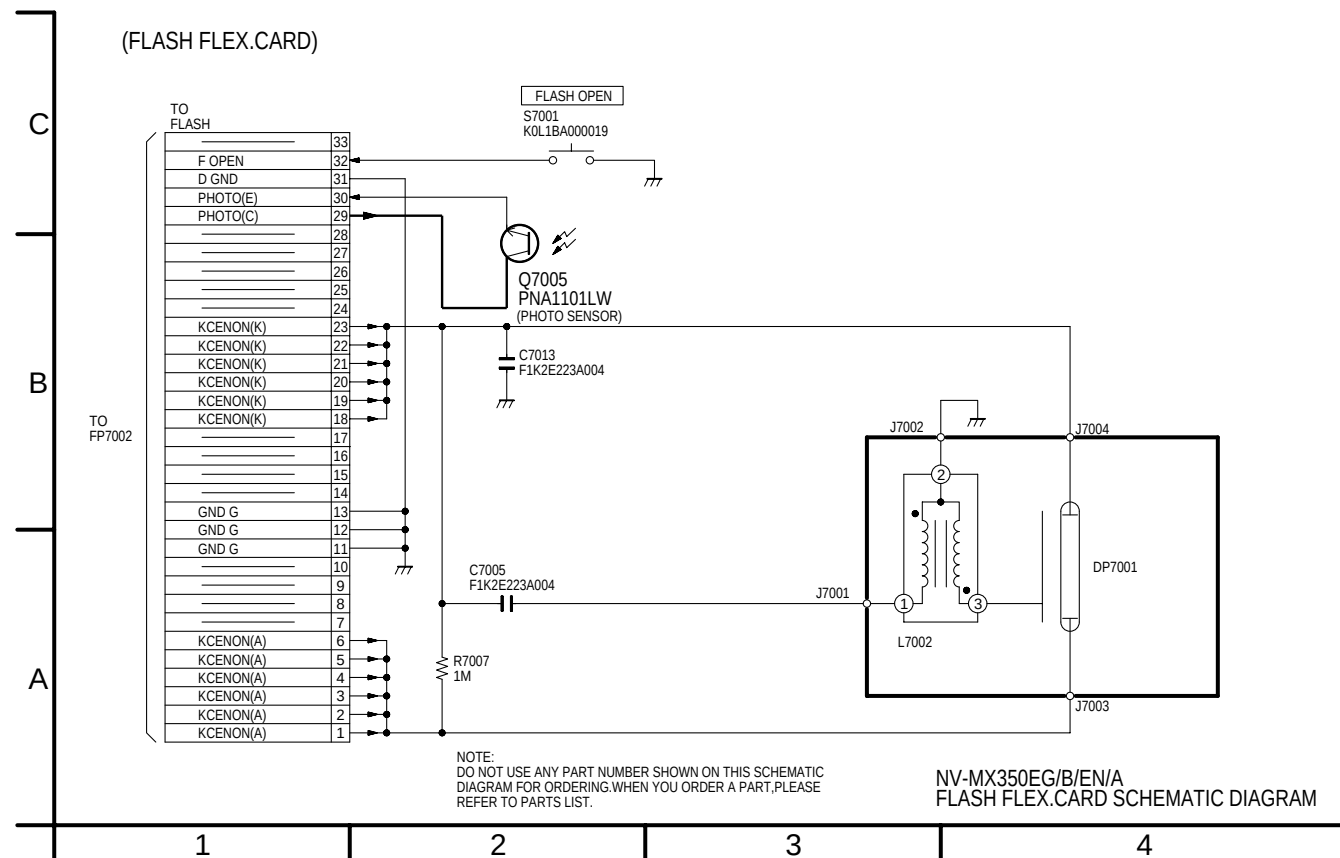


11.9. GRIP SCHEMATIC DIAGRAM

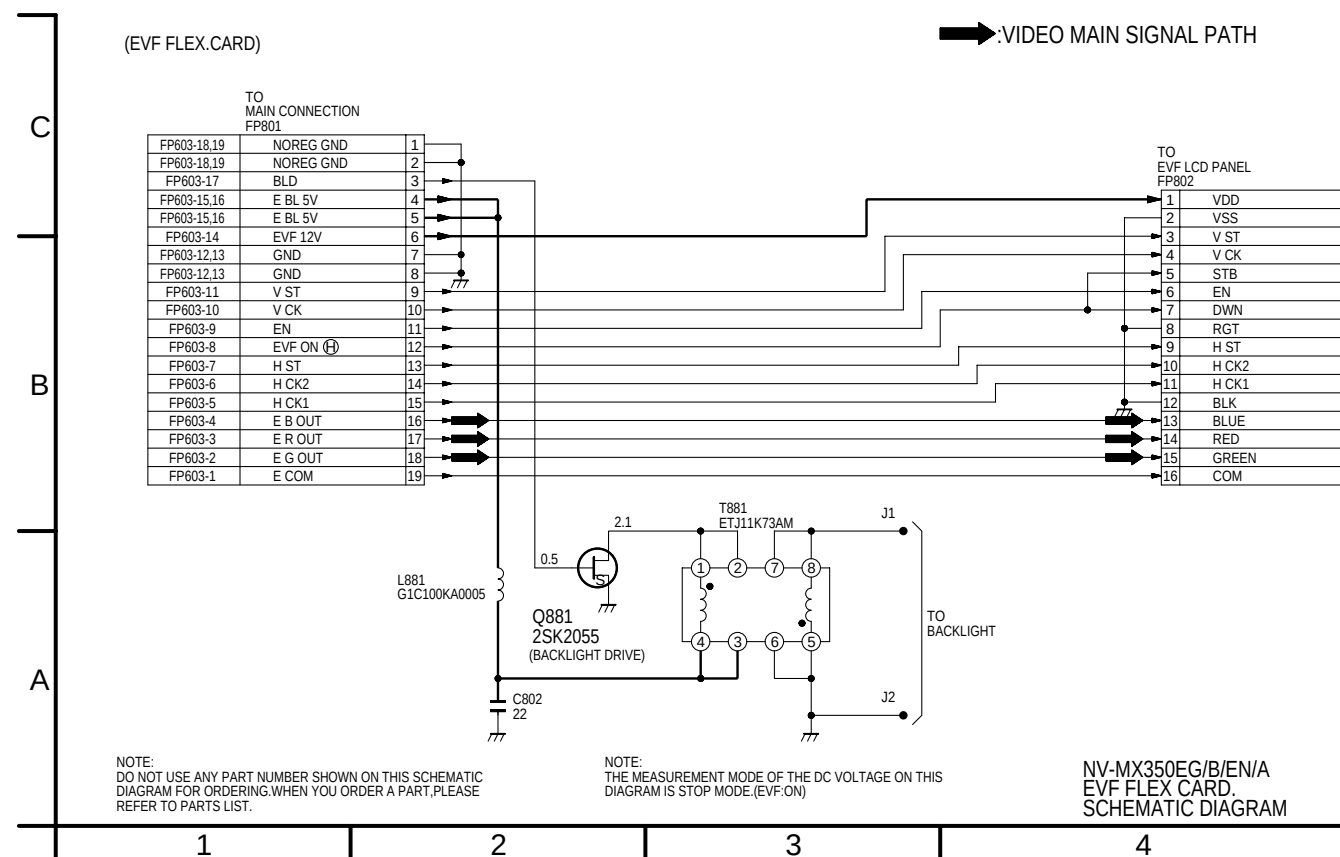




11.10. FLASH FLEX. CARD SCHEMATIC DIAGRAM

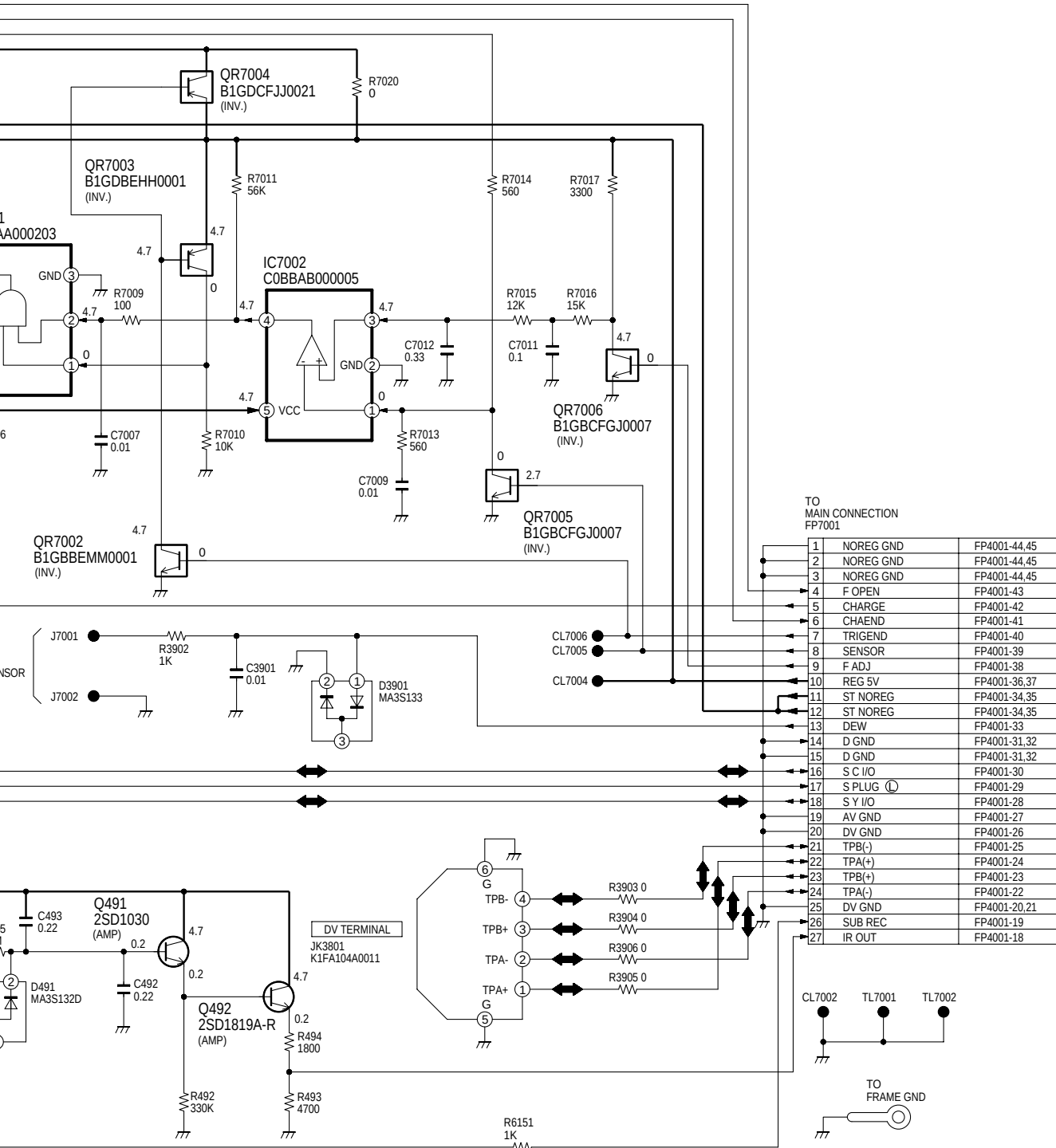


11.11. EVF FLEX. CARD SCHEMATIC DIAGRAM





➡:MAIN SIGNAL PATH



ANY PART NUMBER SHOWN ON THIS SCHEMATIC
ORDERING WHEN YOU ORDER A PART, PLEASE
RTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS
DIAGRAM IS STOP MODE.

NV-MX350EG/B/EN/A
FLASH & SUB REC SCHEMATIC DIAGRAM

5

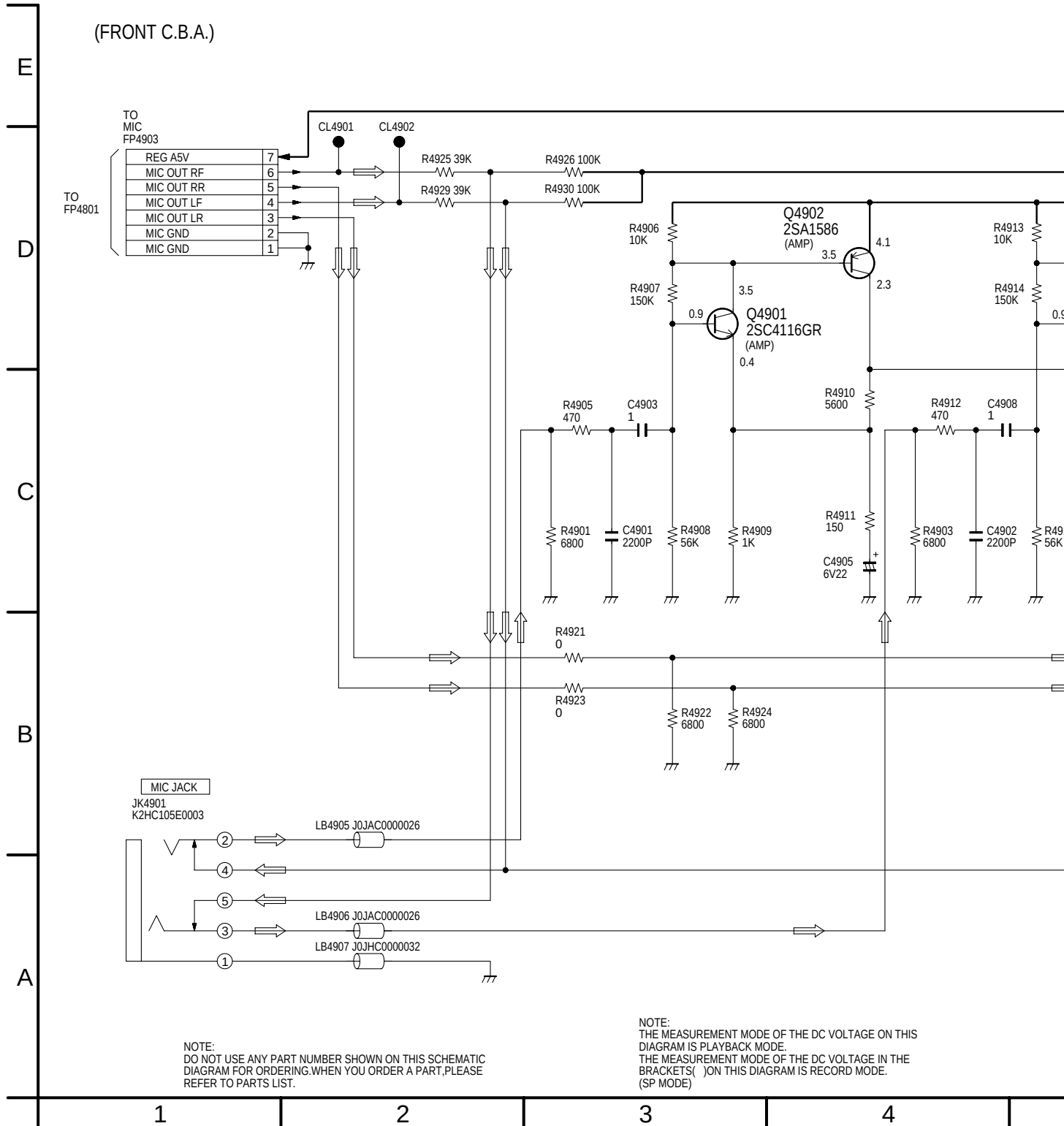
6

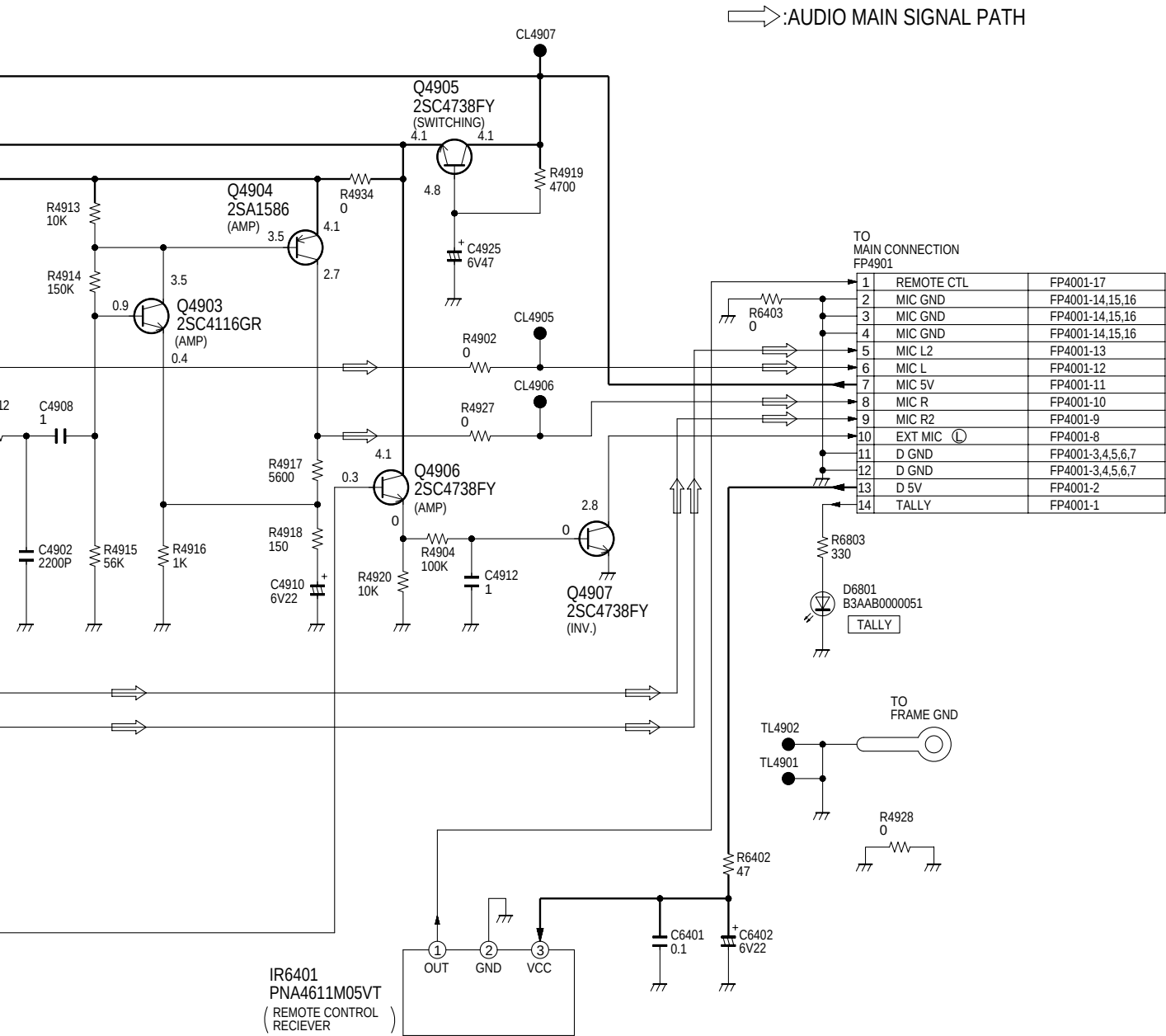
7

8

9

11.13. FRONT SCHEMATIC DIAGRAM





NV-MX350EG/B/EN/A
FRONT SCHEMATIC DIAGRAM

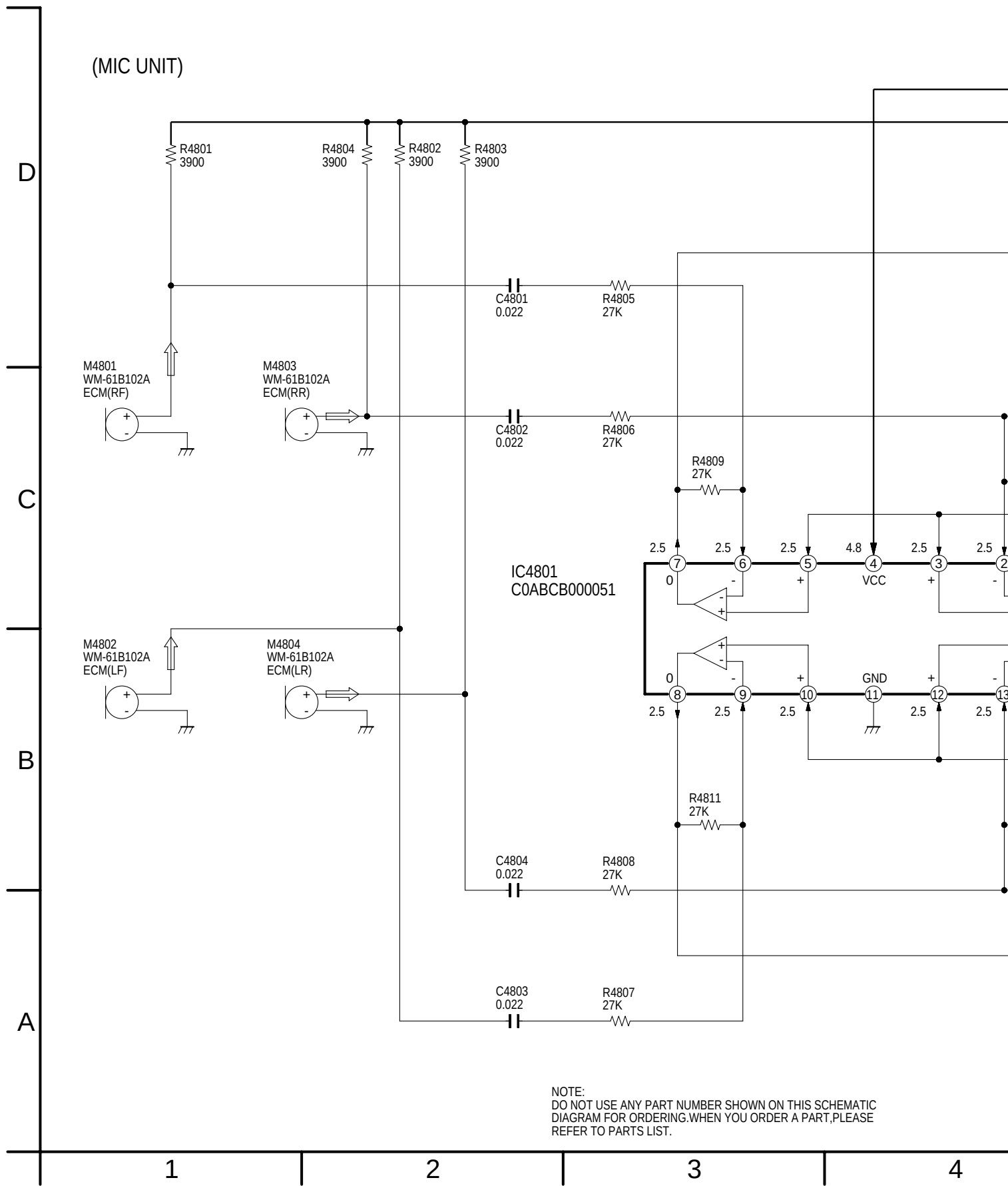
5

6

7

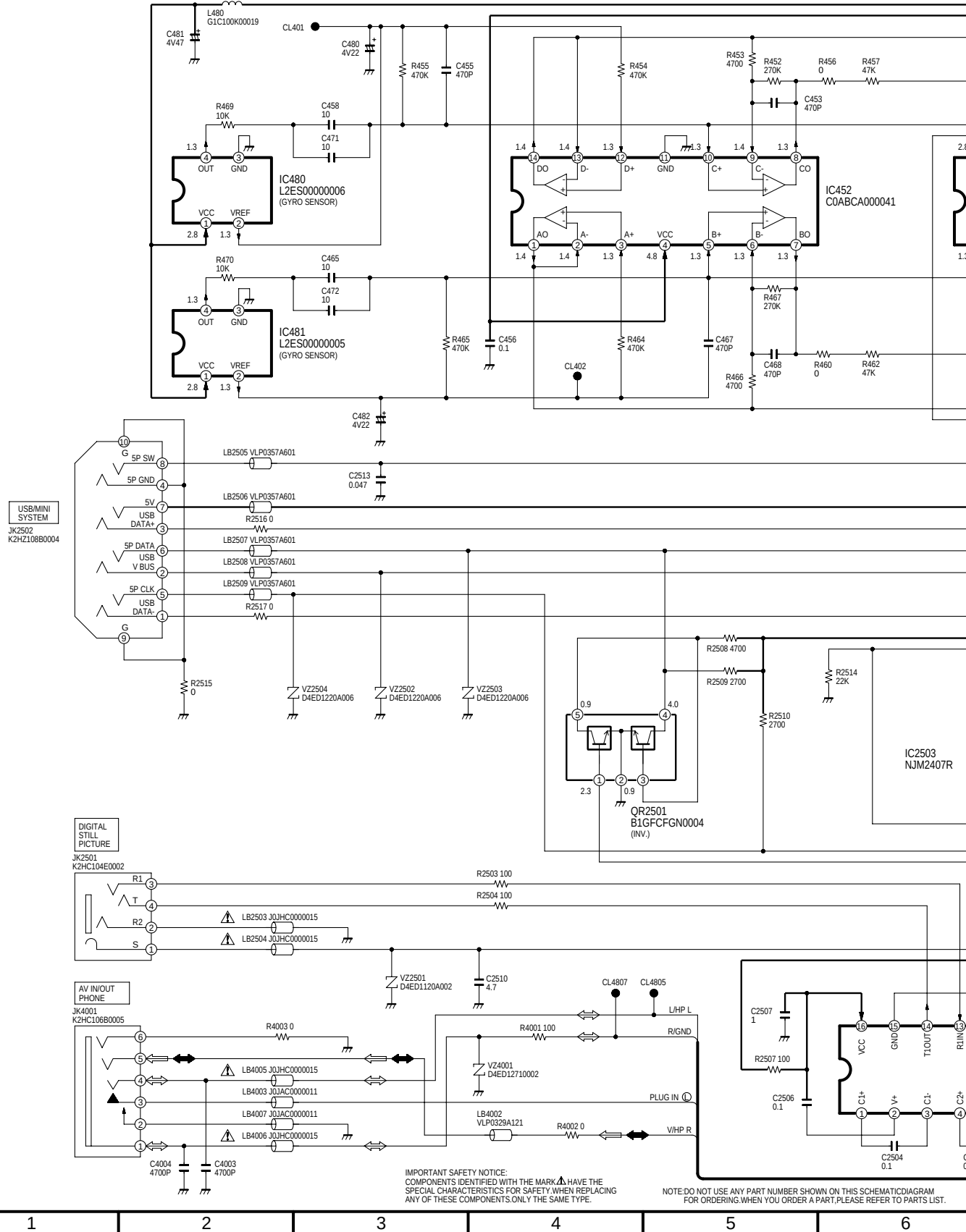
8

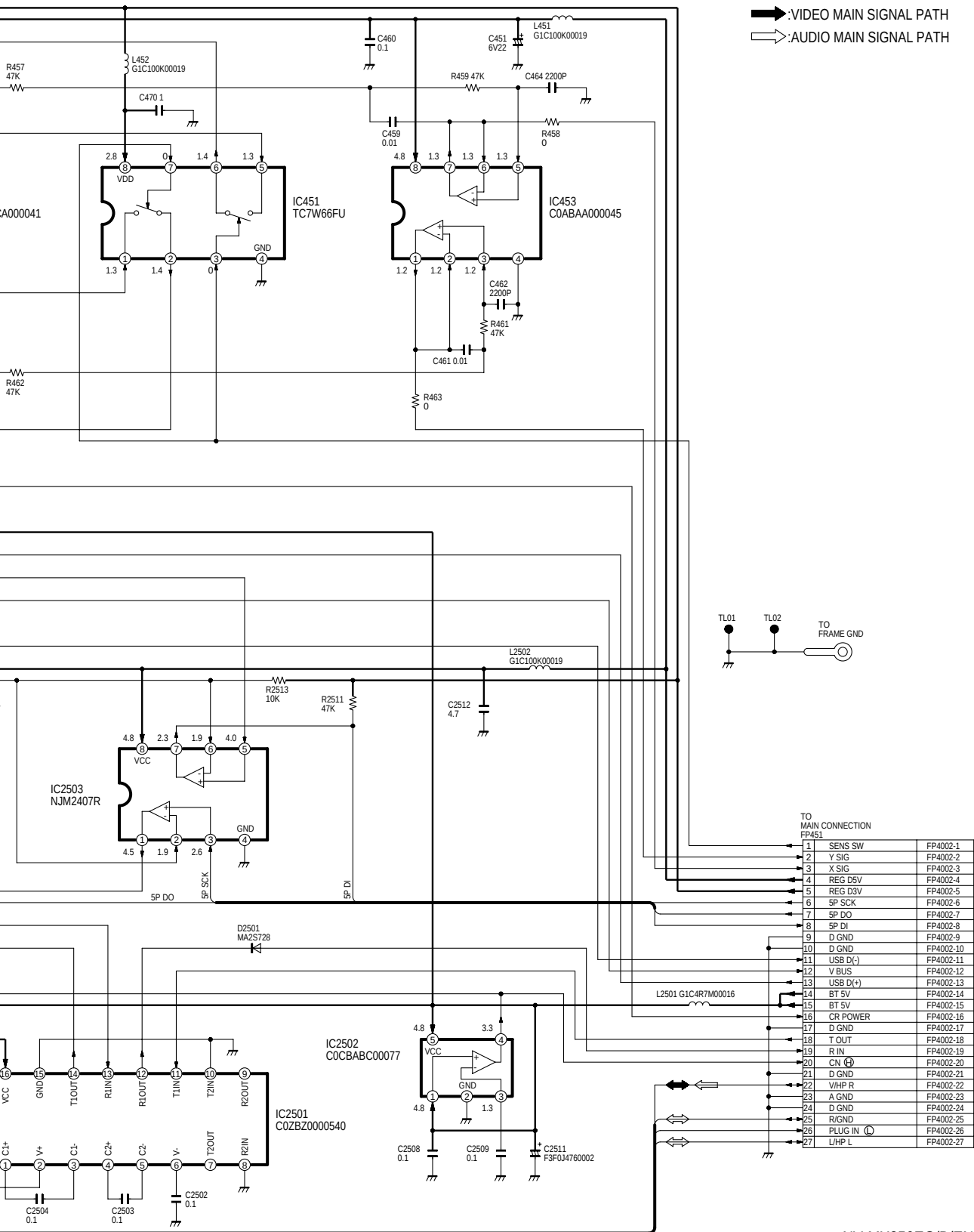
11.14. MIC UNIT SCHEMATIC DIAGRAM



11.15. GYRO SCHEMATIC DIAGRAM

(GYRO C.B.A.)

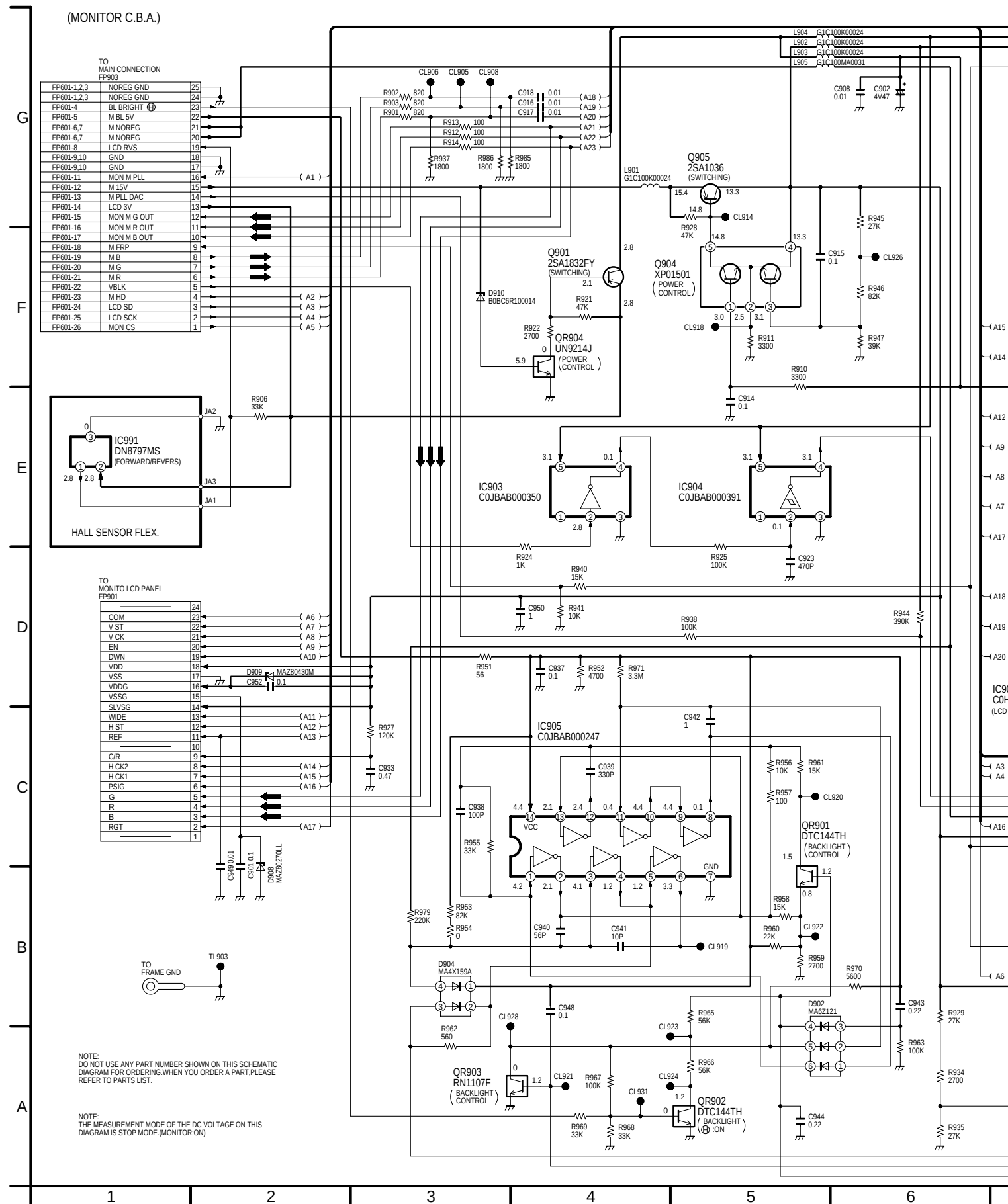




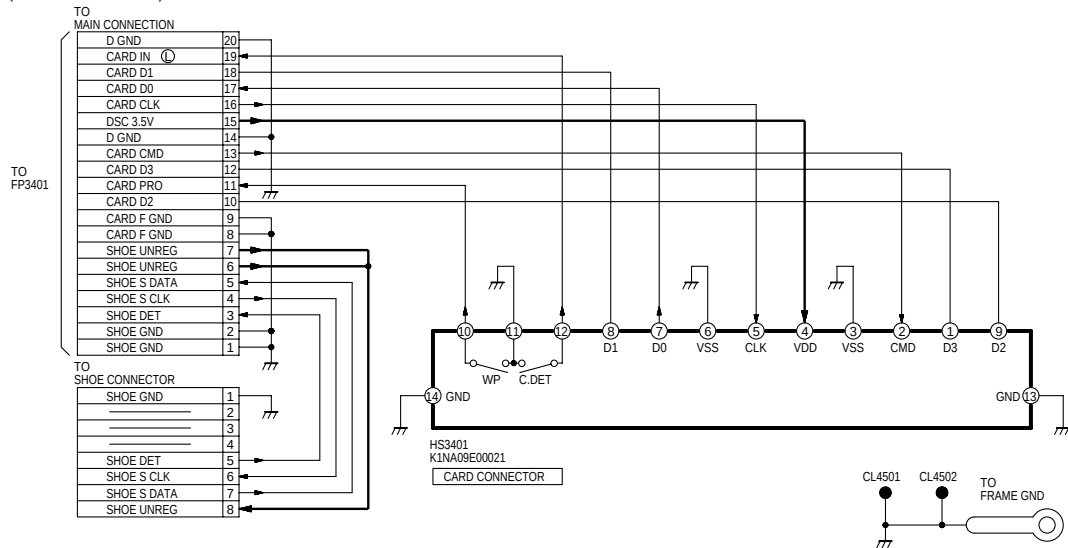
THIS SCHEMATIC DIAGRAM IS FOR THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE (SP MODE)

NV-MX350EG/B/EN/A
GYRO SCHEMATIC DIAGRAM

11.16. MONITOR & HALL SENSOR FLEX. SCHEMATIC DIAGRAM



(SD/SHOE FLEX.CARD)



NV-MX350EG/B/EN/A
SD/SHOE FLEX.CARD SCHEMATIC DIAGRAM

(S/S POWER FLEX.)

A

TO
FP6102

TO
GRIP

S/S	1
SCAN2	2
_____	3
POWER SW	4
_____	5
D GND	6
SCAN1	7
MODE	8

S/S

POWER ON

MODE

NV-MX350EG/B/EN/A

S/S POWER FLEX.SCHEMATIC DIAGRAM

1

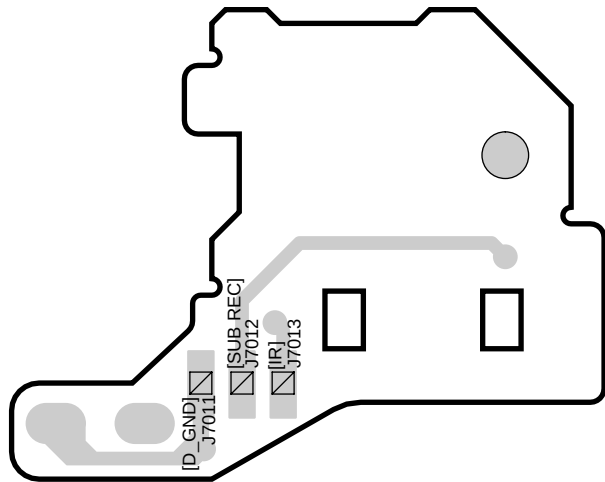
2

3

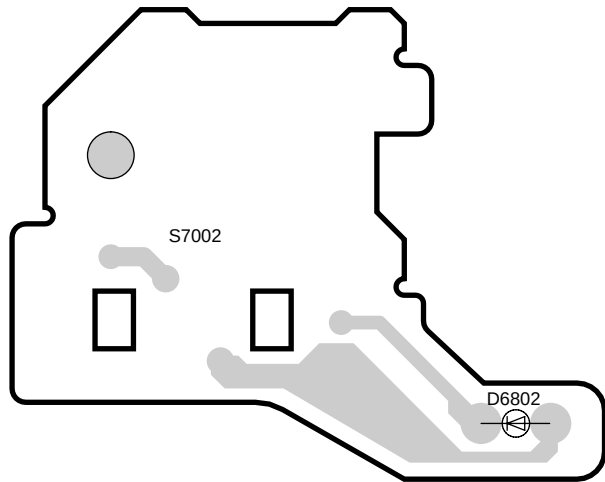
(VEK9360)

B

A



(COMPONENT SIDE)



(FOIL SIDE)

NV-MX350EG/B/EN/A
SUB REC C.B.A.

1

2

3

4

5

(SIDE CASE R UNIT VTR OPERATION FLEX.)

C

TO
FP301

B

A

TO
SUB CONNECTION

LI BATT(+)	1
	2
	3
	4
STOP	5
SCAN4	6
FF	7
REW	8
PAUSE	9
PLAY	10
MENU SEL2	11
MENU SET	12
D GND	13
MENU SEL1	14
WB	15
AF/MF	16
MFL1	17
MFL2	18
MF VCC	19
FLL AUTO	20
AE LOCK	21
OIS	22
MENU	23
D GND	24
LCD OPEN	25

TO
FRAME GND

LCD OPEN
S6503
KOL18A000015

OIS
ON/OFF
S6504

WB
S6507

MENU
S6501

MF/AF
S6502

LITHIUM
BATTERY
B6501
VSB0407

R6502
330

S6508

PLAY

FF

PAUSE

REW

STOP

CAMERA ADJ/VOL/JOG

S6505
K9AA01500008

R6501 0

MANUAL FOCUS

FULL AUTO/OFF

S6506
KOD113B00029

AE LOCK

MANUAL

FULL AUTO

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE
REFER TO PARTS LIST.

NV-MX350EG/B/EN/A
SIDE CASE R UNIT (VTR OPERATION FLEX.)
SCHEMATIC DIAGRAM

1

2

3

4

5

(ZOOM UNIT)

A

TO
FP6101

TO
GRIP

PHOTO SHOT	1
SCAN3	2
Z SW2	3
Z SW1	4
SW GND	5
ZOOM GND	6
ZOOM AD	7
A V REF	8

PHOTO SHOT

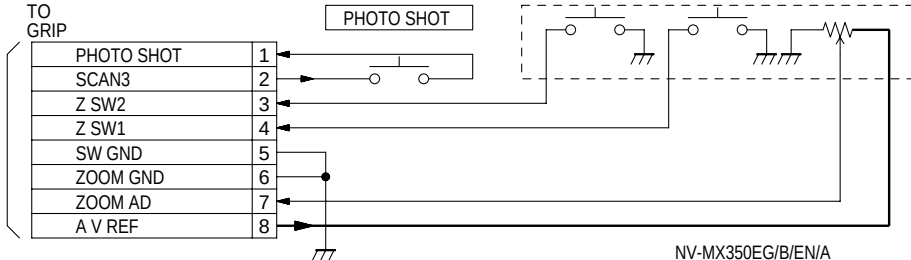
ZOOM VR

NV-MX350EG/B/EN/A
ZOOM UNIT SCHEMATIC DIAGRAM

1

2

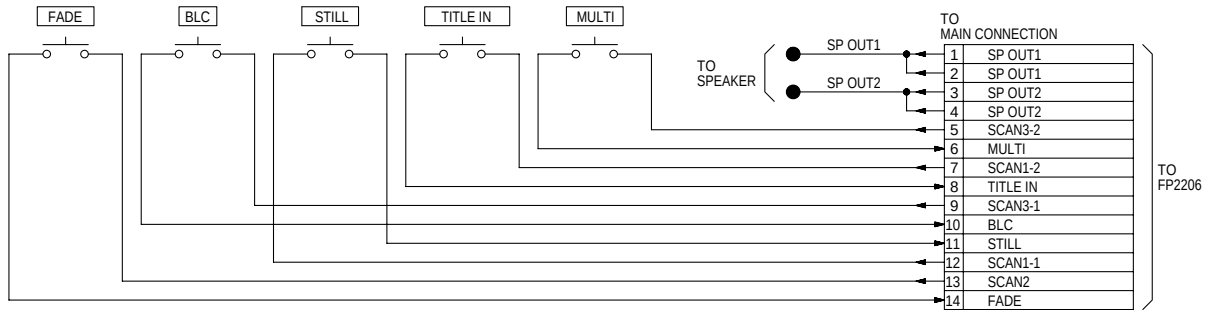
3



(SIDE CASE R UNIT CAMERA OPERATION FLEX.)

B

A



NV-MX350EG/B/EN/A
SIDE CASE R UNIT(CAMERA OPERATION FLEX.)
SCHEMATIC DIAGRAM

1

2

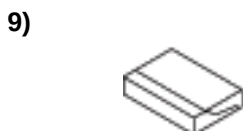
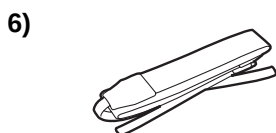
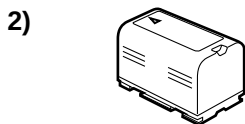
3

4

Standard Accessories

Illustrated on the left are accessories supplied with the Movie Camera.

- 1) AC Adaptor, DC Input Lead and AC Mains Lead
- 2) Battery Pack
- 3) Remote Controller and Button-Type Battery
- 4) Lens Cap and Lens Cap Cord
- 5) AV Cable
- 6) Shoulder Strap
- 7) SD Memory Card
- 8) USB Connection Kit
- 9) Head Cleaning Cassette (NV-MX350EN/A)



Controls and Components

1) LCD Monitor

•Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the LCD Monitor screen. However, this is not a malfunction and does not affect the recorded picture.

2) LCD Monitor Open Button [PUSH OPEN]

3) Microphone (built-in, stereo)

4) Smart Accessory Shoe

•The Video Flash (VW-FLH3E:Optional) or the Stereo Microphone (VW-VMS2E:Optional), etc. can be attached here. Power is supplied directly from the Movie Camera when using an accessory supported by the Smart Accessory Shoe.

•Do not touch the connector part of the Smart Accessory Shoe.

5) Speaker

6) Title Button [TITLE]

7) Multi/P-in-P Button [MULTI/P-IN-P]

8) Fade Button [FADE]

9) Backlight Button [BLC]

10) Still Button [STILL]

11) Flash Open Button [PUSH]

12) Built-in Video Flash

13) Flash sensor

14) Focus Ring

15) Lens Hood

16) Lens (LEICA DICOMAR)

17) Remote Control Sensor

18) Mode Selector Switch [AUTO/MANUAL/AE LOCK]

19) Optical Image Stabilizer Button [OPTICAL IMAGE STABILIZER] (OIS)

20) Focus Button [FOCUS]

21) White Balance Button [W.B]

22) Menu Button [MENU]

23) Multi-Function Dial [PUSH]

24) Operation Lever

•Operates by pushing the lever to each direction.

Ⓐ: Reverse Search [←]

Rewind/Review [◀◀]

Recording Check [Ⓜ]

Ⓑ: Forward Search [→]

Fast Forward/Cue [▶▶]

Ⓒ: Playback [▶]

Pushing it twice activates the Variable Speed Search mode.

Ⓓ: Stop [■]

•Operates by pressing.

Ⓔ: Pause [⏸]

25) Viewfinder

•Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the Viewfinder screen. However, this is not a malfunction and does not affect the recorded picture.

26) Eyepiece Corrector Knob

27) Zoom Lever [W/T]

28) Photoshot Button [PHOTO SHOT]

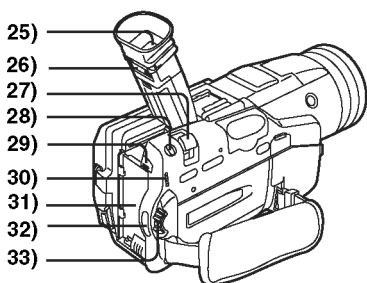
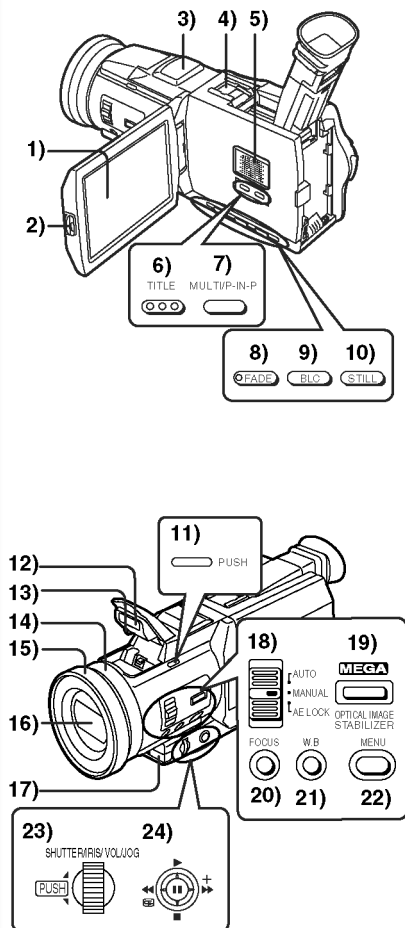
29) Battery Eject Button [BATT PUSH]

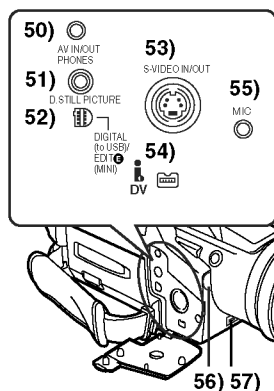
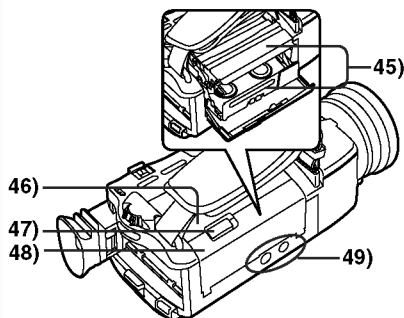
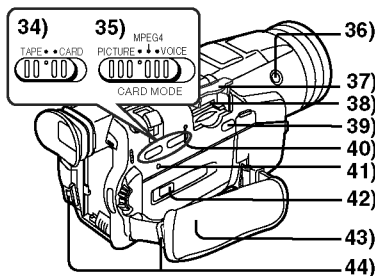
30) Mode Lamps

31) Battery Holder

32) Recording Start/Stop Button

33) Power Off/On Mode Selector Switch [OFF/ON/MODE]





34) Tape/Card Selector [TAPE/CARD]

35) Card Mode Selector [PICTURE/MPEG4/VOICE]

36) Sub Recording Start/Stop Button [REC]

37) Card Slot Cover

38) Card Slot

39) Card Slot Cover Open Lever [OPEN]

40) Card Access Lamp [ACCESS]

41) Reset Button [RESET]

42) Cassette Compartment Window

43) Grip Belt

44) Shoulder Strap Holder

45) Cassette Holder

46) Upper Cassette Compartment Cover

47) Cassette Eject Lever [OPEN/EJECT]

48) Lower Cassette Compartment Cover

49) Tripod Receptacle

- Use for mounting the Movie Camera on an optional tripod.

50) Audio-Video Input/Output Socket [AV IN/OUT]

Headphone Socket [PHONES]

- Connecting an AV Cable to this socket activates the Movie Camera's built-in speaker, but connecting a headphone, etc. deactivates it.

51) Digital Still Picture Terminal [D.STILL PICTURE]

52) Edit Socket [EDIT (MINI)]

USB Socket [DIGITAL (to USB)]

53) S-Video Input/Output Socket [S-VIDEO IN/OUT]

54) DV Terminal

- Connect this to the digital video equipment.

55) Microphone Socket [MIC]

56) White Balance Sensor

57) Recording Lamp

INITIAL/LOGO		ABBREVIATIONS		INITIAL/LOGO		ABBREVIATIONS	
A	A GND	Analogue GND			ALC MAIN	Auto Level Control Drive	
	A HASW	Audio Head Amp Switching Pulse			ALE	Address Latch Enable	
	A HSW	Audio Switching Pulse			A-LOCK	Full Auto Switch	
	A MUTE	Audio Mute			A-MUT(H)	Audio Mute (H)	
	A ORP	Audio Overlap Pulse			ANLPTH	Analogue Loop Through High	
	A. TR	Auto Tracking			AORP	Audio Overlap Pulse	
	A0-8, 0-17	Memory Address			APCNT	Aperture Control	
	A3V2	AD Converter Reference Voltage			APS	Auto Power Save	
	AB0-4	Address Bus			ART VH	Artificial Vertical Sync	
	AB0-4, AB12-15	Address Bus Line 0-4, 12-15			AT CNT	Automatic Tracking Gain Adjust	
	ABSF	Focus Encoder Input			ATF	Automatic Track Finding	
	ACI	Analogue Channel Cording IC			ATFCLK	41.85MHz Clock	
	AD	AD Converter			ATFG	Auto Track Gain	
	AD	Auto Date, Analogue Digital Converter			ATL	Auto Lock Select	
	AD CLK	AD Clock			ATN	Absolute Track Number	
	AD REC	Audio Delayed REC			ATR OFF(H)	Auto Tracking Off (H)	
	AD0-6	Address			ATV	Advanced TV	
	AD0-6, ADR0-6	Address Data Line			AUDIO(N)	Audio (Normal)	
	ADCLK	Analogue Digital Converter Clock			AUX	Auxiliary	
	ADCNT	Analogue Digital Control			AVDD	Analogue VDD	
	ADCS	Analogue Digital Chip Select			AVSS	Analogue Ground	
	A-DET	Audio Detect			AWTB	Auto White Balance B-Y	
	ADREC	Audio Delaied Rec			AWTR	Auto White Balance R-Y	
	ADUB	Audio Dubbing					
	AE	Auto Expose		B	BACK	Back-up	
	AECNT	Auto Expose Control			BACK UP	Microcomputer Back-up	
	AEE(H)	Audio E-E (H)			BACK VDD	Back-up Power	
	AEH	Audio Erase Head			BATT	Battery	
	AEIRQ	Auto Expose Interrupt Request			BATT ALARM	Battery Alarm	
	AF/MF	Auto Focus/Manual Focus			BATT REF	Reference Voltage for Battery	
	AF DIS CS	AF DIS Chip Select			BCB	B Carrier Balance	
	A-FADE(L)	Audio Fade (L)			BCBM(B-Y)	B-Y Carrier Balance	
	AF-AMP	AF HALL Bias			BCBM(R-Y)	R-Y Carrier Balance	
	AFCS	Auto Focus Chip Select			BD0-7	REC/Play In/Out Buss	
	AFRP	Audio PLL Voltage Control			BDCK	Standard Bus Data Clock (9MHz)	
	AF-VN	Zoom Encoder V-Ref (–)			BDEN	Standard Bus Data Enable	
	AF-VP	Zoom Encoder VREF (+)			BEND	Data Block End Request	
	AGC	Automatic Gain Control			BF	Burst Flag Pulse	
	AGCCNT	Automatic Gain Control Control			BFA	Burst Flag Pulse for Encoder	
	AGND	Analogue Ground/Audio Ground			BFO/BFI	Burst Flug Input/Output	
	AGS	Anti Ground Shooting			BI, BO	Buffer Input, Output	
	AH(P) / (R)	Audio Head (Play) / (Record)			BL	Back Light	
	AHASW	Audio Head Amp Switch Pulse			BL ON	Back Light ON (L)	
	AHSW	Audio Head Switch Pulse			BL4V	Back Light 4V	
	AI, AO	Buffer Input, Output			BLC 0, 1	Back Light Y Control Out, In	
	AIBCK	Bit Clock (to A/D Converter)			BLDI/O	Back Light Drive Input/Output	
	AIDAT	Serial Data (to A/D Converter)			BLK	Blanking Pulse	
	AILRCK	L/R Clock (to A/D Converter)			BLKA	Blanking for Encoder	
	AIMCK	Master Clock (to A/D Converter)			BLKA	Blanking Pulse for Encoder	
	ALC CNT	Auto Level Control Control			BLKI/O	Blanking Pulse In/Out	

INITIAL/LOGO		ABBREVIATIONS	INITIAL/LOGO		ABBREVIATIONS
	BLKZ	Blanking Pulse for Zoom Encoder		CH1	Channel 1 (Odd Field)
	BM	Balance Modulator		CHR	Character
	BQUIET	Bus Out Control Signal		CHR BACK	Character Back-up
	BUF IN/OUT	Buffer In/Out		CHR MIX	Character Mix
	B-Y KB	B-Y Carrier Balance		CI, CO	Buffer In/Out
	B-YO	B-Y Signal Out		CI,CO	Buffer Input & Output
C	C A In/Out	Pre-Aperture In/Out		CIF	Control Signal Forward Input
	CAPSTP	Capstan Stop Flag		CIF, CIR	Positive Control Pulse, Negative Control Pulse
	C CNT	Colour Control		CIR	Control Signal Reverse Input
	C SYNC	Composite Sync Signal		CK	Clock
	C/N	Carrier/Noise		CL/CLK	Clock
	C0-7, C00-07	Chrominance Signal 0-7		CLASS	Classeffication Signal for Compress (DCT/VLC)
	CAGAIN	Aperture Gain Control		CLASS 0.1	Class Control Signal Durring DCT/VLC
	CAM	Camera		CLK135	13.5MHz System Clock
	CAM CLK	Camera Clock		CLK18	18MHz System Clock
	CAM RST	Camera Reset		CLK2	Clock 2 (824XFH: 12.875MHz)
	CAM SIOC	Camera Serial In/Out Contol		CLK246	24.576MHz Clock
	CAM T	Camera Test		CLK27	27MHz System Clock
	CAM TL	Capstan Trque Limit		CLK450	450KHz Clock
	CAP EC	Capstan Trque Control		CLKDCLK	Digital Clock
	CAP P(H)	Capstan Power On (H)		CLK-PH	Clock Phase Control
	CAP R/F/S	Capstan Reverse (H)/Stop (M)/Forward (L)		CLK-REF	Reference Clock
	CAP SW	Capstan Power Control Switch		CLP-RST-H	Clamp Reset High Signal
	CAPSTP H	Capstan Stop Flag (Stop High)		CLX	TFT X-axis Transmission Clock
	CAPVM	Capstan Motor Current		CLX, CLX1-4	Shift Clock for X Direction (LCD Panel)
	CAPVS	Capstan Motor Power Control Switch		CLY	Shift Clock for Y Direction (LCD Panel)
	CAS	Compresion, Audio Process, Shuffling/Deshuffling		CLY	TFT Y-axis Transmission Clock
	CAS	Memory Address Strobe (Active Low)		CLY FG	Cylinder FG Signal
	CASDOWN, DWN	Cassette Down (L)		CMEMO0-3	Chroma Memory Output Signal 0-3
	CB, CR	Chroma B, Chroma R		CMIX	Character Mix
	CBLK	Composite Blanking Pulse		CMO	Chrominance Memory Output
	CC	Channel Cording		COMPC	Position Detection Pulse
	CCA	Curent Drive Control		COM RDY	Serial Enable Signal
	CCA	Current Control Amp		CMODE	Camera Mode
	CCD	Charge Coupled Devise		CNCLK	Clock
	CCW	Counterclockwise		CNR	Chrominance Noise Reduction
	CD SP0-7	Digital Chroma		CNT, CONT	Control
	CDS	Correlate Double Sampling Signal		CO	Control Out
	CDS1, 2	Sampling Pulse for CCD Output Signal		CO0-7	Chrominance Output 0 to 7 (Digital)
	CE	Chip Enable		COM	Common
	CE	Control Pulse Erase		COM RDY	Serial Transmission Enable
	CEC	Capstan Error Code		COMB	Comb Filter
	C-ERA(H)	Control Erase (H)		COS EQ	Cosin Equalizer
	CFEM	Chrominance Memory Signal		CP	Clamp Pulse
	CFM	Chrominance Field Memory		CP ON(H)	Camera Power On(H)
	CFM1-4	Chroma Field Memory Signal		CP2, 20	Clamp Pulse
	CG CLK	Character Generator Clock		CP2A, CP2O	Encoder Clamp Pulse
	CG CLK DATA	Clock Generator Data		CPN	Component Signal
	CG DATA	Character Generator Data		CPOB	Clamp Pulse for Optical Blanking
	CGC	Chrominance Gain Control		CPS	Composite Signal
	CGCS	Character Generator Chip Select		CPV	Gate Scan Clock
	CGO	Character Generator Serial Data		CR OUT	Pre Apature Out
	CH	Charge		CR POW SW	Camera Remote Power On Switch
				CRA	Aperture Gain Control

Service Manual

ORDER NO. VMD0109026C8

Service Manual

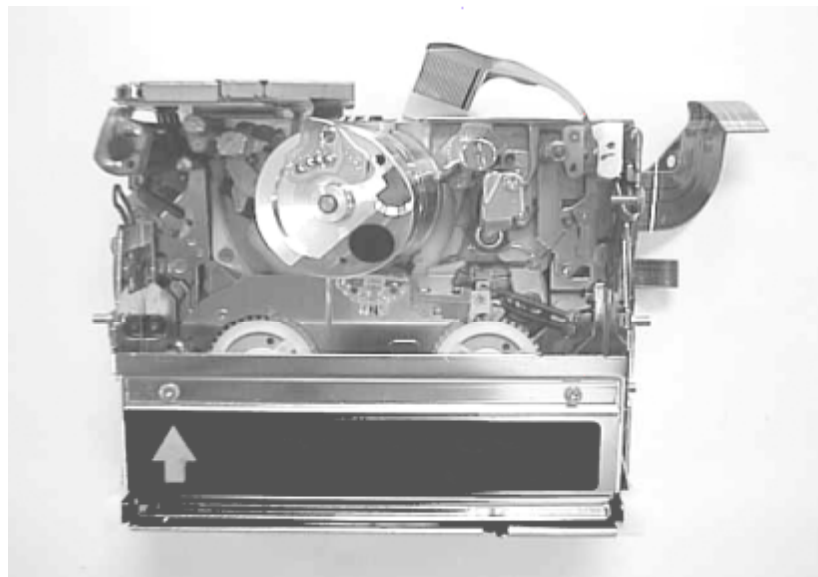
Digital Video Camera/Recorder

Panasonic Mini DV

- Q-MECHANISM

(Including Q1, Q2&Q3)

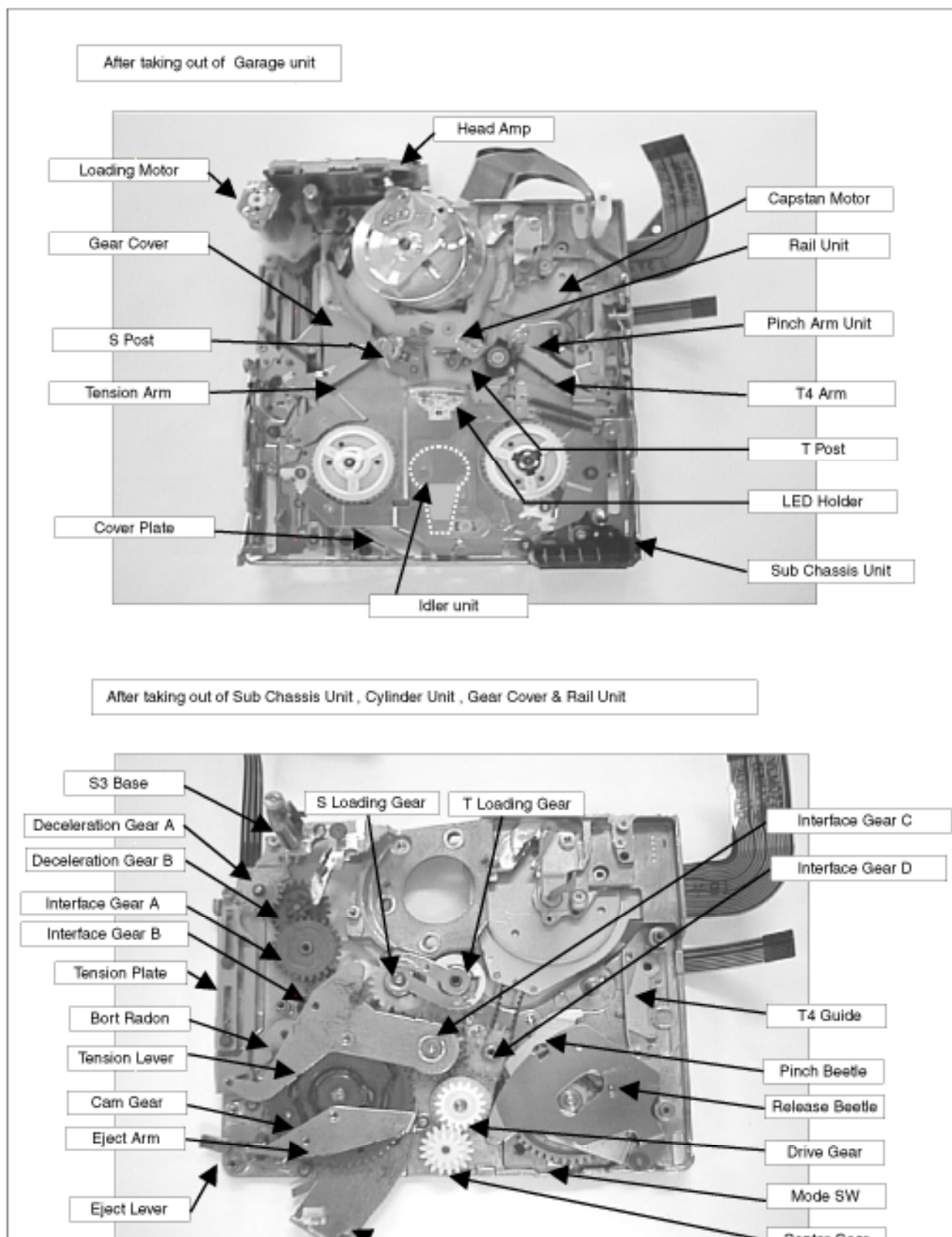
*Disassembly/Assembly
Procedures
Adjustment Procedures*



Panasonic

1.1 UPPER SIDE

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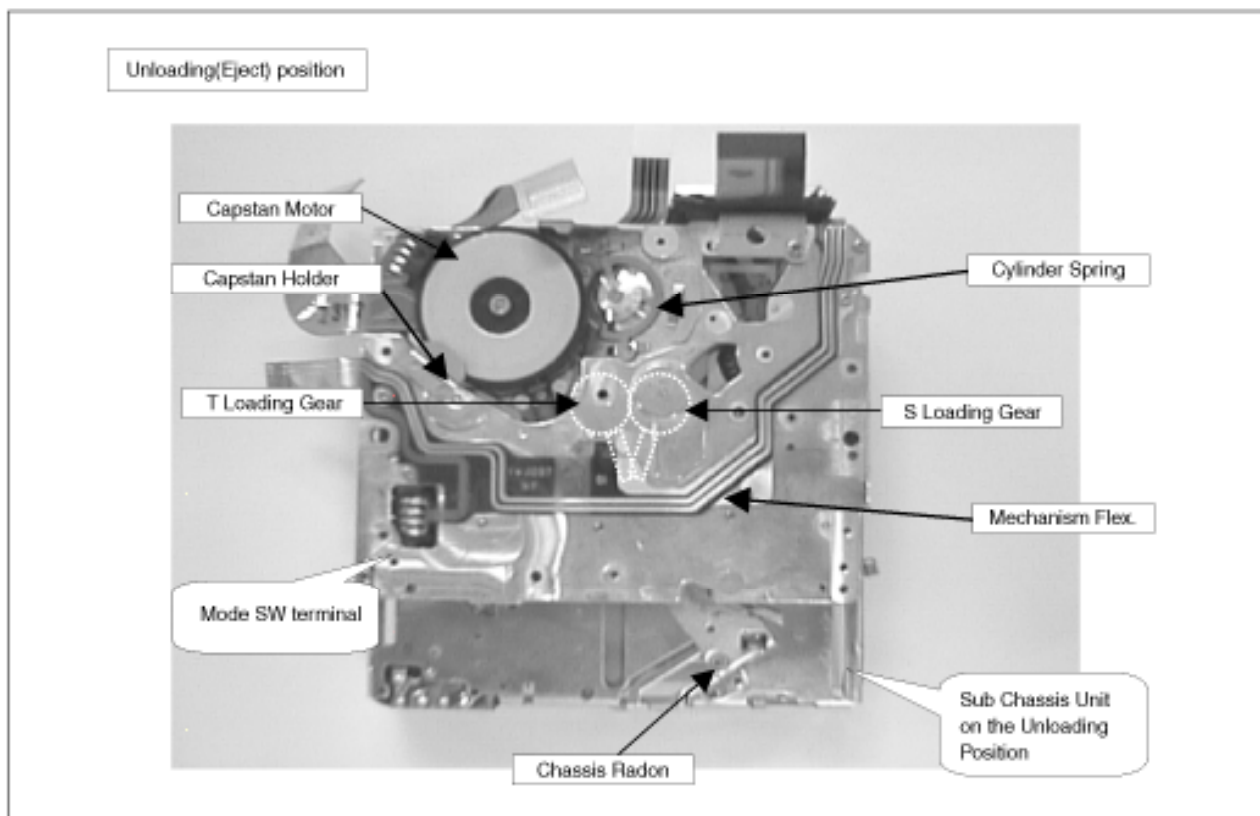




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1.2 BOTTOM SIDE

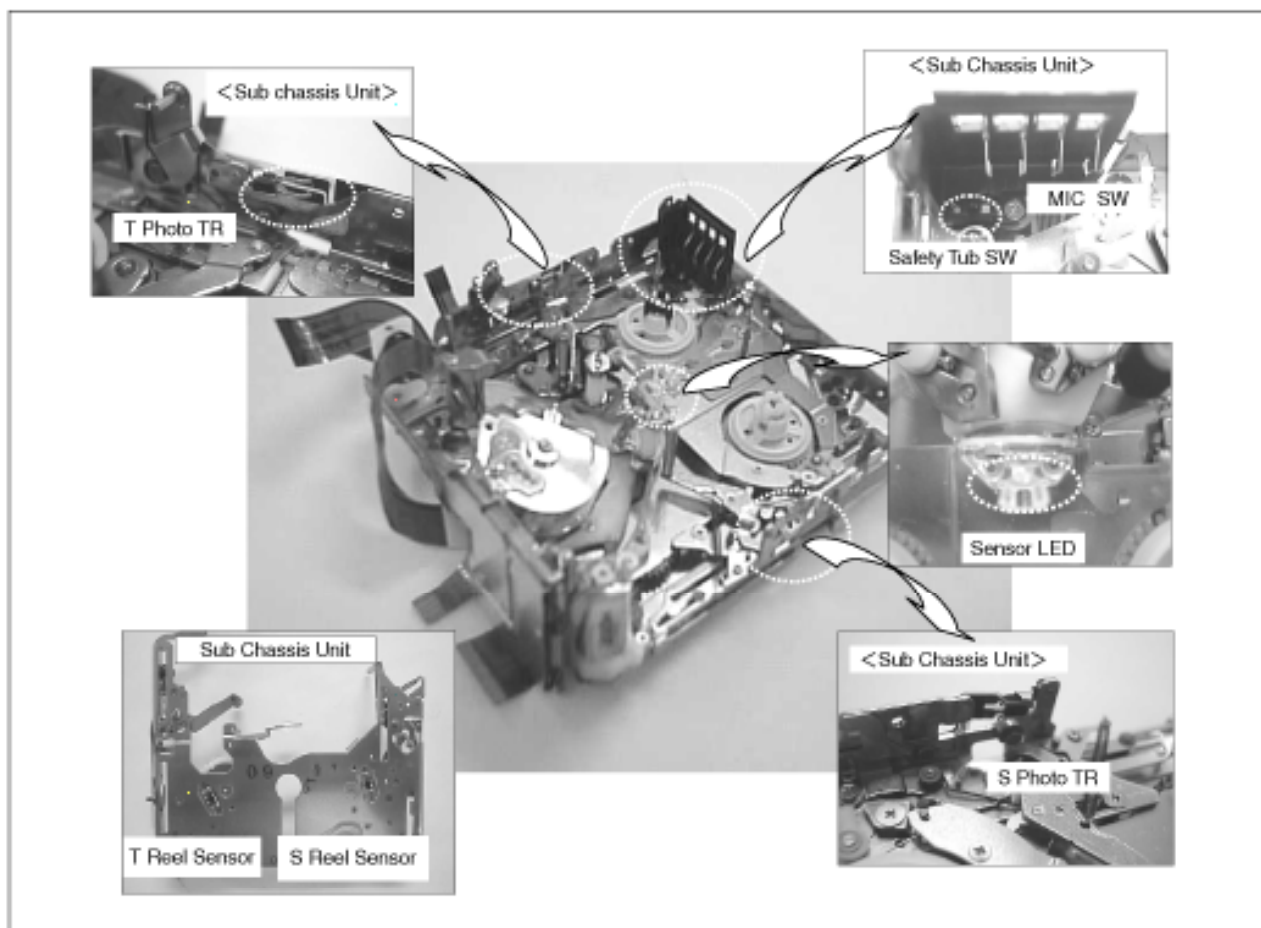
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1.3 SENSOR POSITION

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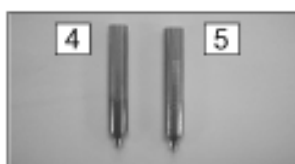
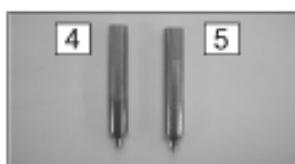


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2.1 FIXTURES& TOOLS FOR DISASSEMBLY& ASSEMBLY

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No.	Parts number	Parts Name	Q'ty	New	Remarks
1	VFK1390	Precision Driver	1	•	
2	VFK1444	Gear Driver	1	•	
3	VFK1444Q2	Gear Driver for Q2 & Q3mecha.	1	•	
4	VFK1650	Cut Washer Jig(0.86)	1	•	
5	VFK1649	Cut Washer Jig(0.65)	1	•	
6	VFK1024	Molytone Grease	1	•	

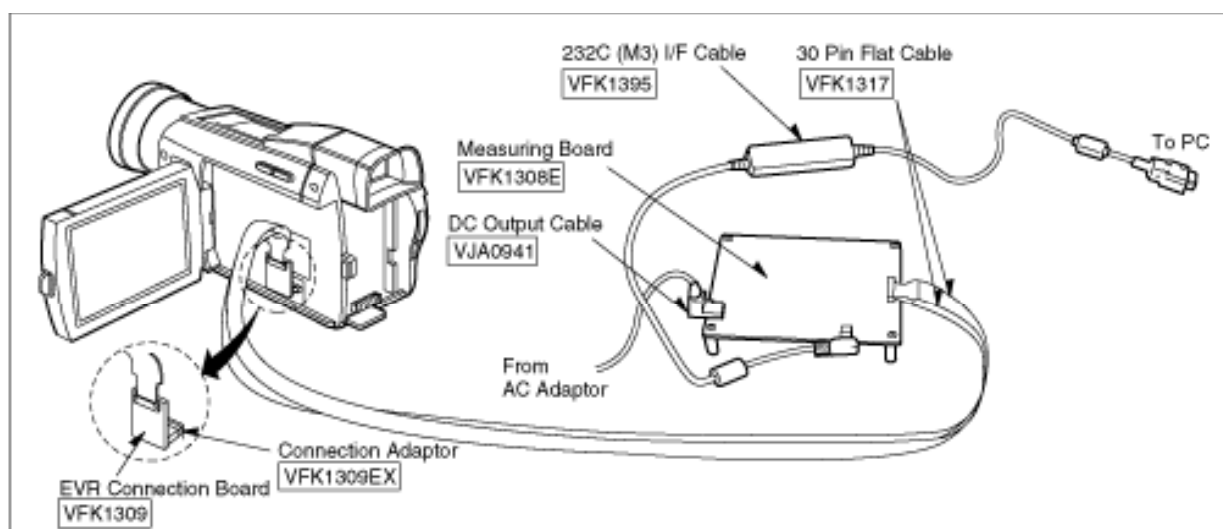
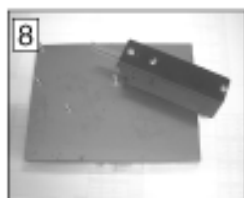


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2.2 FIXTURES&TOOLS FOR MECHANICAL ADJUSTMENT

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No.	Parts number	Parts Name	Q'ty	New	Remarks
7	VFK1278	Post Adjustment Driver	1	•	
8	VFK1638	Capstan Tilt Adj. Jig	1	•	
9	VFK1641	Envelope Detecor Board	1	•	
10	VFM3110EDS(PAL)	DV Alignment Tape	1	--	or VFM3010EDS(NTSC)
11	VFK1395	232C(M3) I/F Cable	1	--	"TATSUJIN" system
12	VFK1308E	Measuring Board	1	--	"TATSUJIN" system
13	VFK1309	EVR Connecor Board	1	--	"TATSUJIN" system
14	VFK1309EX	Connection Adaptor		--	"TATSUJIN" system
15	VFK1317	30pin Flat Cable	2	--	or VFK1517(New - 300mm) "TATSUJIN" system
16	VJA0941	DC Output Cable	1	--	"TATSUJIN" system



2.3 MAINTENANCE FOR CAPSTAN TILT ADJUSTMENT JIG.

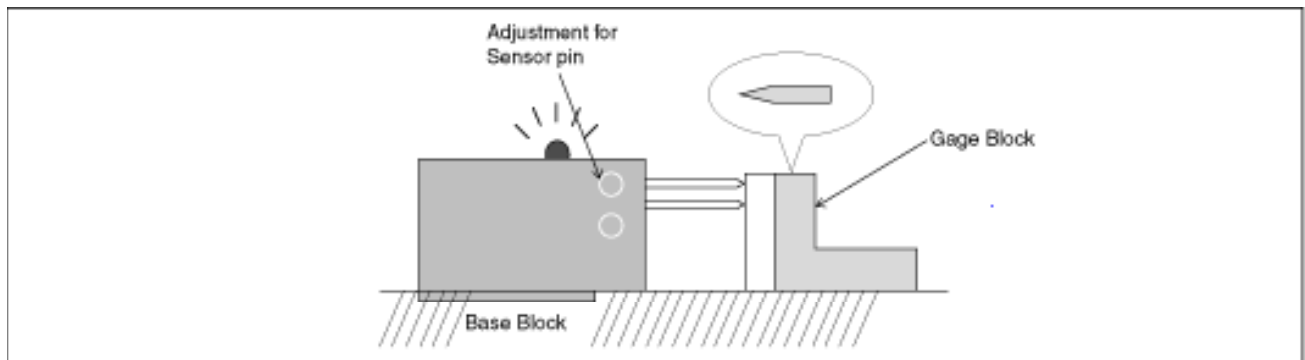
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1. Keep applying oil for preventive oxidation on base block.

Glove should be used when you apply oil.

2. Do not apply pressure to this jig.
3. If Brightness of LED become weak, Battery (SUM4 X 2) in the top of box should be changed.
4. Inspect sensor pin regularly as following.
 - A. Put Gage Block to sensor pin.
 - B. Confirm LED is lit.

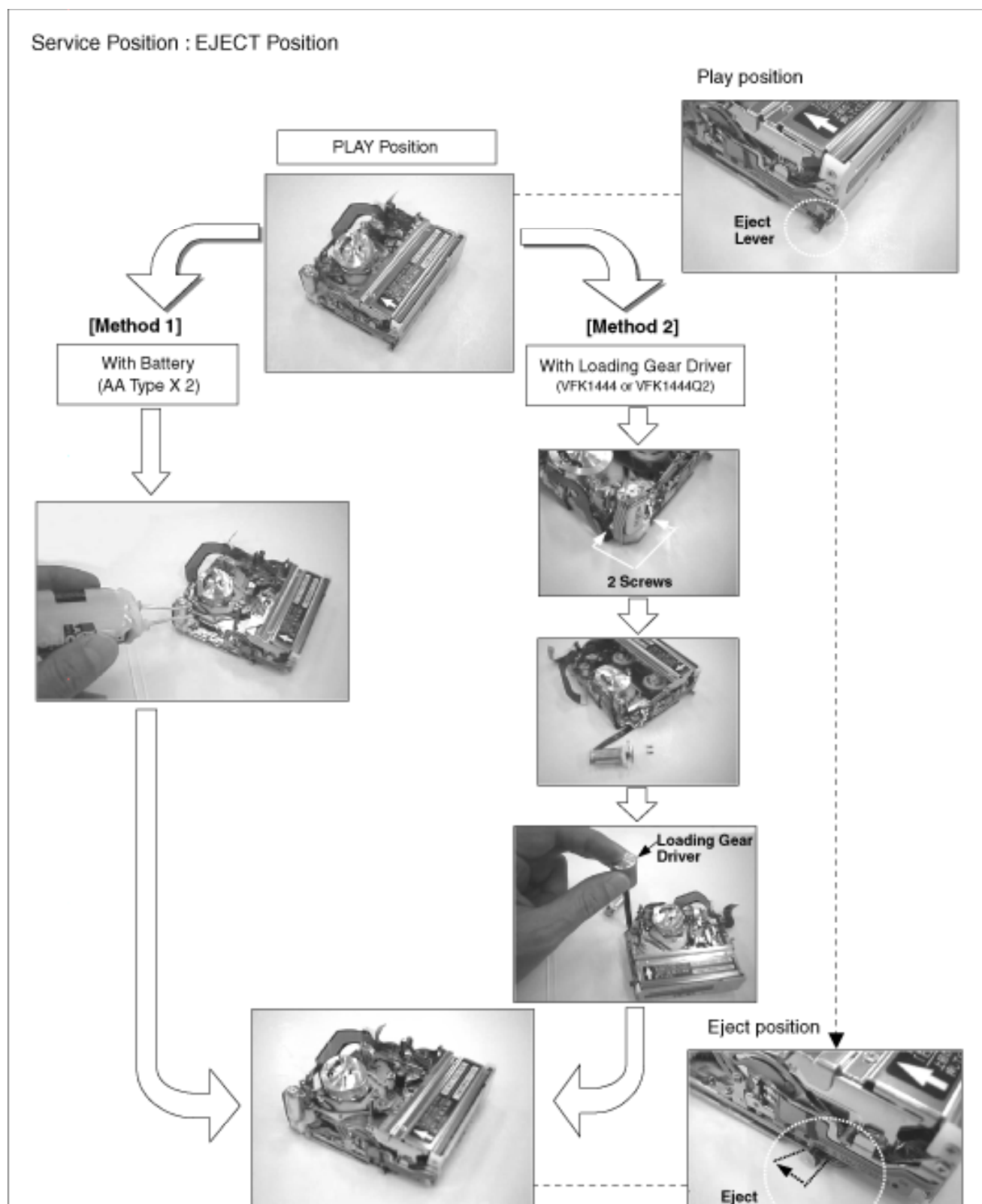
If not, adjust sensor pin by rotating a screw.

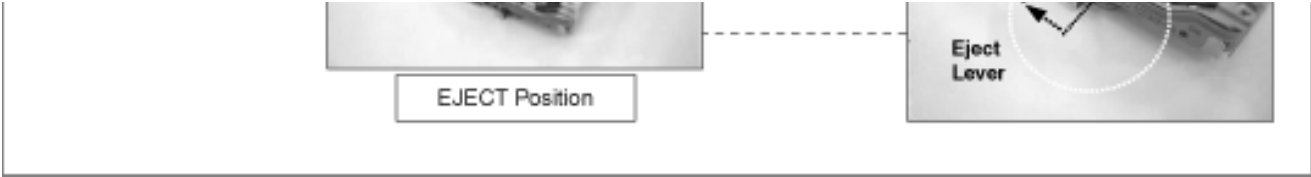


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3.1 PREPARATION FOR DISASSEMBLY

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3.2 DISASSEMBLY PROCEDURE

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No.	Item	Fig.	Procedure
1	Cassette Up Unit.	Fig. D1-1	1) Remove 3 screws. (Q1 &2 have 4 screws)
		Fig. D1-2	2) Take coupling portion off from both S &T sides.
*2	H Amp Unit./(Only Q1 & Q2)	Fig. D2-1	1) Remove a screw from Shield case.
		Fig. D2-2	2) Take Cylinder Flex. From connector.
		Fig. D2-3	3) Remove a screw from H Amp Angle.
3	Cylinder Unit & RT Flex. Flame.	Fig. D3-1	1) Remove a screw from RT Flex. Flame.
		Fig. D3-2	2) Remove 3 screws and then take Cylinder Spring out.
		Fig. D3-3	3) Remove a screw and take RT Flex. Flame out.
4	LED Holder, Cover plate & Idler U.	Fig. D4-1	1) Pull up and remove LED Holder.
		Fig. D4-2	2) Move LED Flat Cable out of position and unhook 2 springs.
		Fig. D4-3	3) Remove 5 screws and remove Cover Plate & Idler U.
5	Sub Chassis Unit	Fig. D5-1	1) Remove 4 screws.
		Fig. D5-2	2) Remove a screw and unhook a spring from Pinch Arm.
6	Pinch Arm & Center Gear	Fig. D6-1	1) Remove Cut Washer and take Pinch Arm out. 2) Take Center Gear out.
		Fig. D6-2	3) Take Center Gear Spacer out.
7	Rail Unit	Fig. D7-1	1) Make half loading until / Connection Arm comes out.
		Fig. D7-2	2) Disconnect Connection Arms. a) Hold Loading Gear side. b) Disconnect connection arms.
		Fig. D7-3	3) Remove 4 screws.
8	T-Loading Gear & S-Loading Gear	Fig. D8	1) Take T-Loading Gear out. 2) Remove Cut Washer on S-Loading Gear and take S-Loading Gear out. * Removed Cut Washer can not be used again.
9	Gear Cover	Fig. D9	1) Remove a screw and slide Gear Cover to take out.
10	Pinch Beetle & Release Beetle	Fig. D10	1) Remove a washer and take Pinch Beetle and Release Beetle out together.
11	Tension Lever & Eject Arm.	Fig. D11	1) Remove a screw and take Tension Lever out. 2) Remove a washer and take Eject Arm out.
12	Interface Gears	Fig. D12	1) Remove 4 Gears.
13	Cam Gear	Fig. D13	1) Remove Cam Gear.

14	Chassis Radon	Fig. D14	1) Remove a washer.
15	Boat Radon	Fig. D15	1) Remove Boat radon.
16	Drive Gear	Fig. D16	1) Remove Drive Gear and a White Waher underneath.
17	Capstan Holder & Capstan Motor	Fig. D17-1	1) Remove 2 screws and take Capstan Holder out. * It is not necessary to remove 2 screws for New Capstan Holder. Because it shapes screw.
		Fig. D17-2	2) Remove 3 screws and take Capstan Motor out downword.
18	Loading Motor unit & Mechanism Interface Flex.	Fig. D18-1	1) Remove 2 screws and take Loading Motor Unit out.
		Fig. D18-2	2) Remove 4 screws and dissolder at Mode Sw.
*19	Mode Switch , Deceleration Gears & Tension Plate.	Fig. D19	1) Take Mode Sw out. 2) Remove a washer and take Deceleration Gear (A) out. 3) Take Deceleration Gear (B) out. 4) Remove 2 washers and take Tension Plate.
*20	T4 Guide , Eject Lever , Pulley Cover & Pulley.	Fig. D20-1	1) Remove a screw and take T4 Guide out.
		Fig. D20-2	2) Remove a washer and take Eject Lever out.
		Fig. D20-3	3) Remove 2 screw and take Pulley Cover out. 4) Take Pulley out.
*21	S3 Base U.	Fig. D21	1) Remove a screw for S3 adjustment and take S3 Base U.

* 1) Procedure 2 for H.Amp Unit is applied only Q1 & Q2 / mechanism. 2) Procedure 19 - 21 can be changed in order.

Fig. D1-1

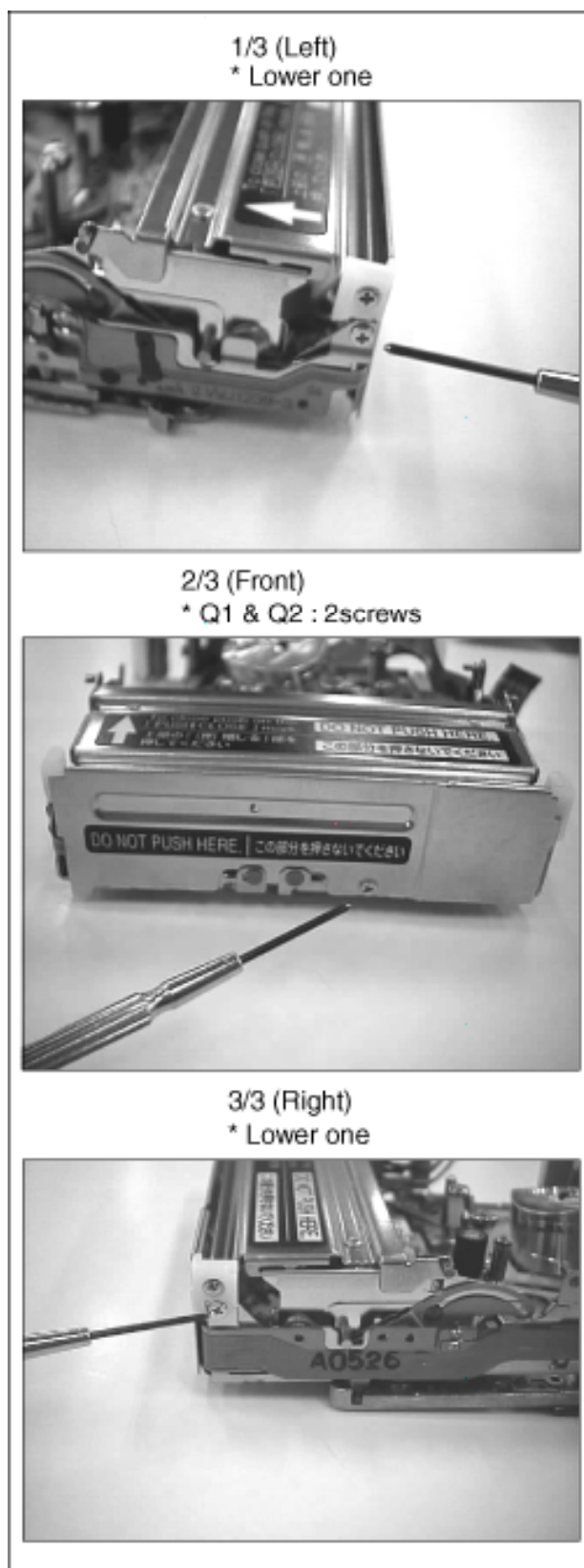


Fig. D1-2

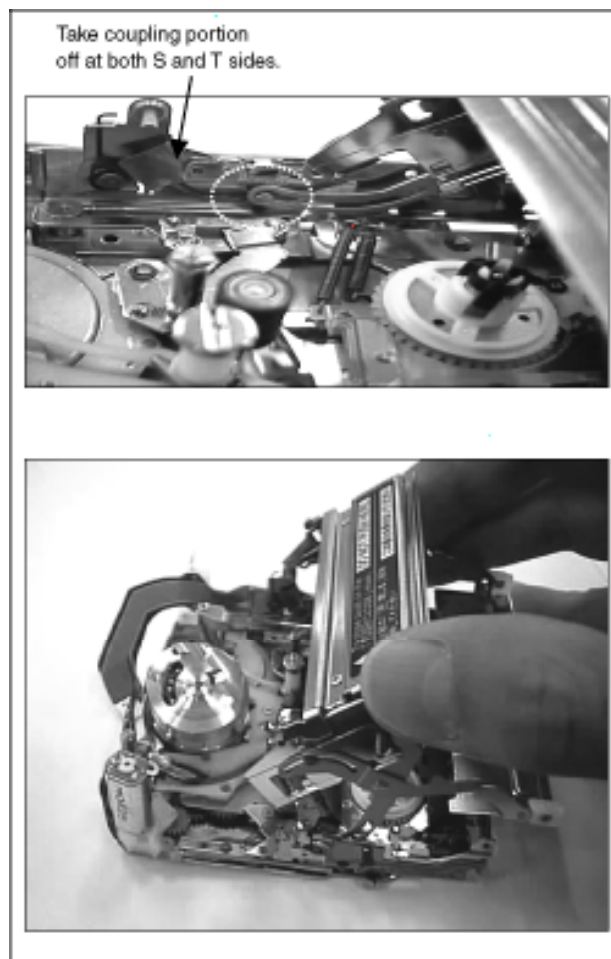


Fig. D2-1

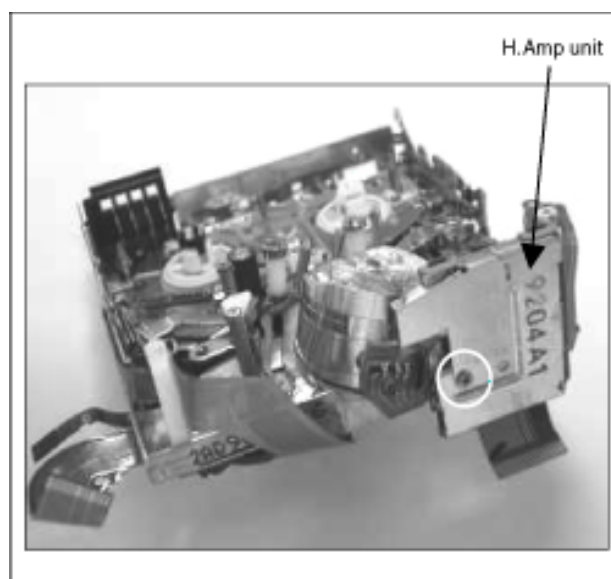


Fig. D2-2

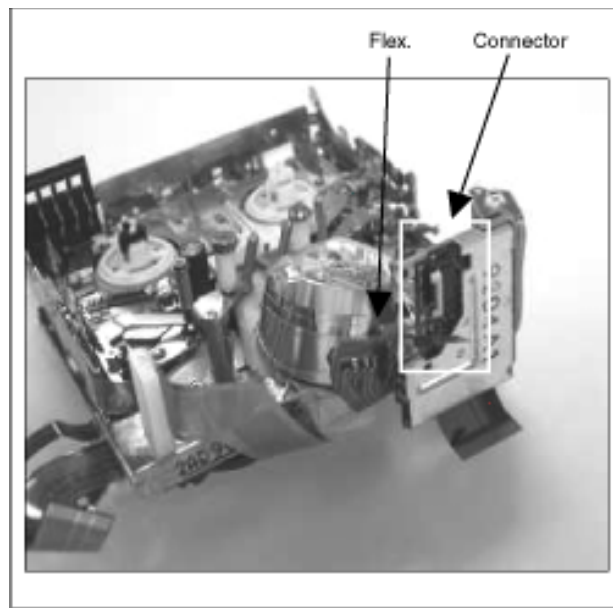


Fig. D2-3

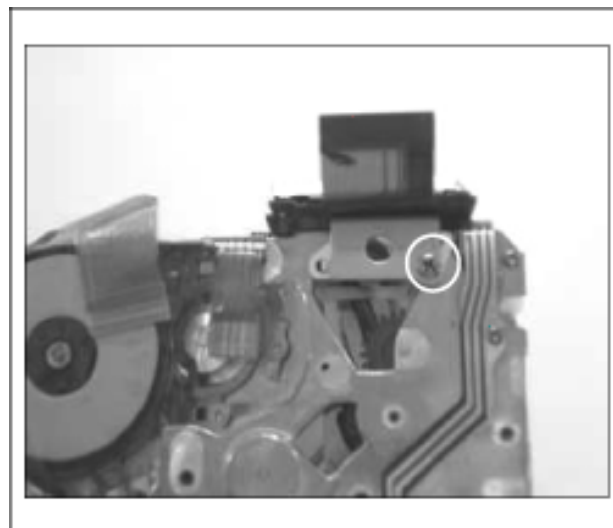


Fig. D3-1

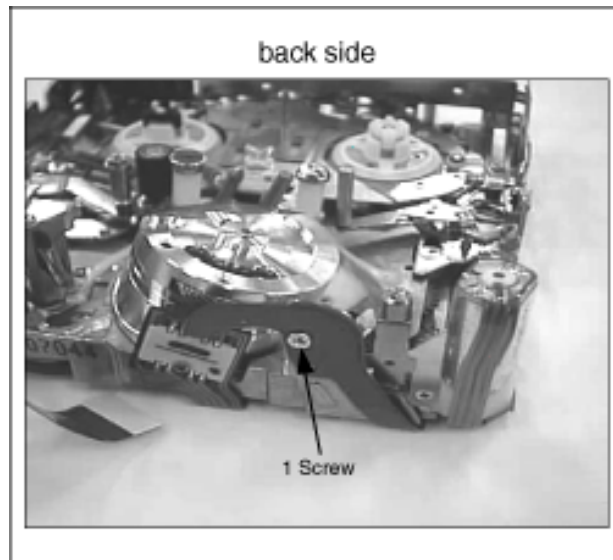


Fig. D3-2

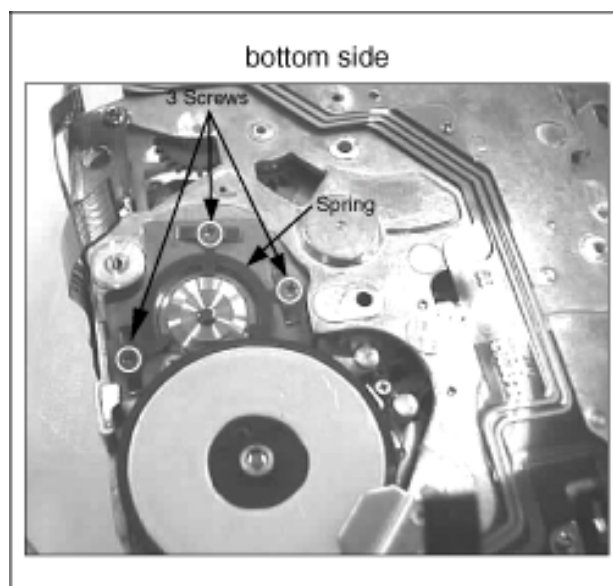


Fig. D3-3

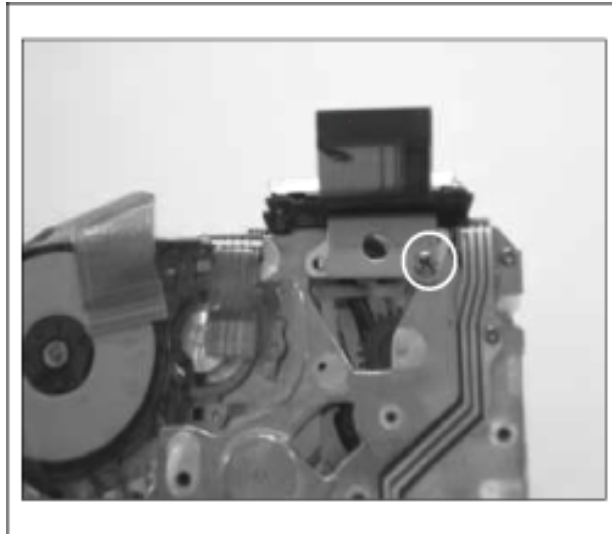


Fig. D4-1

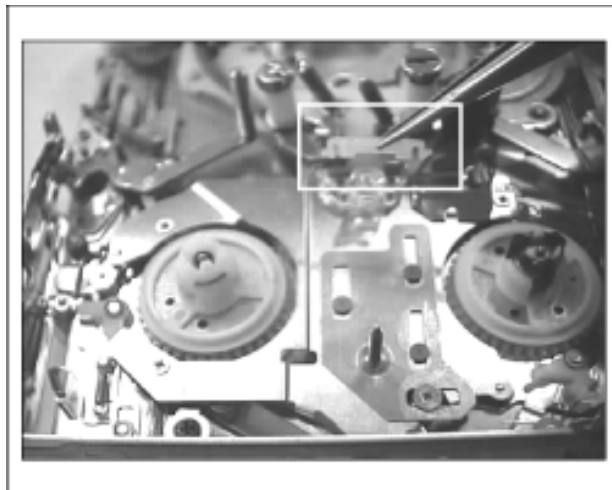


Fig. D4-2

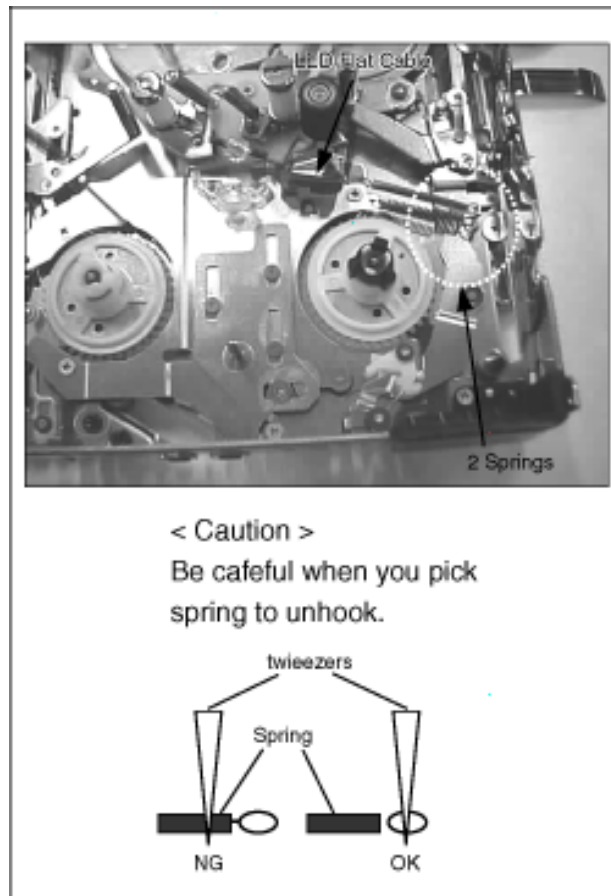


Fig. D4-3

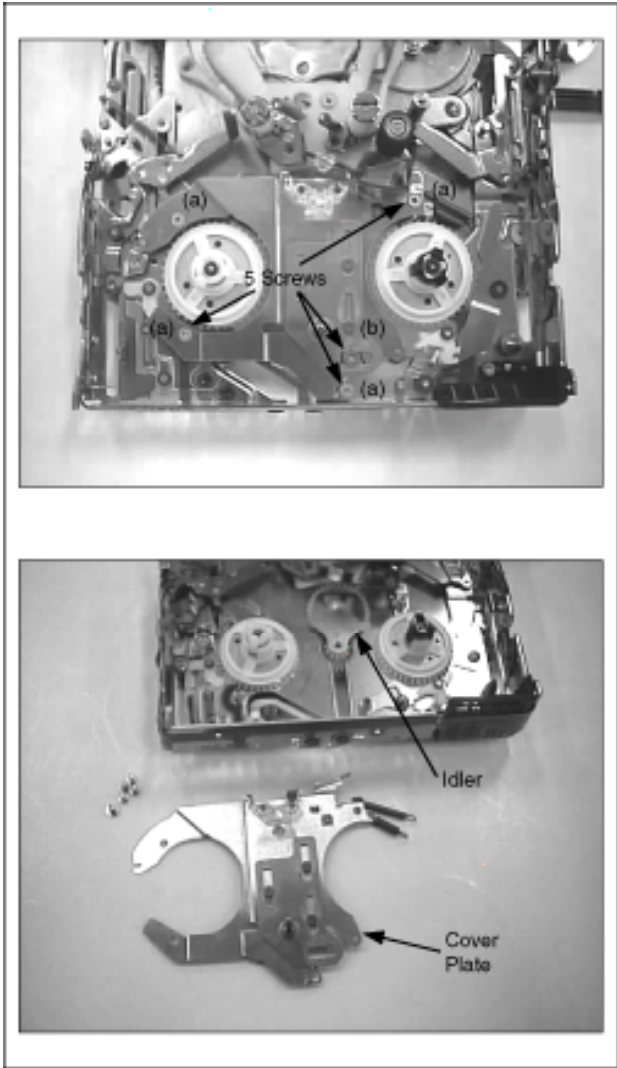


Fig. D5-1

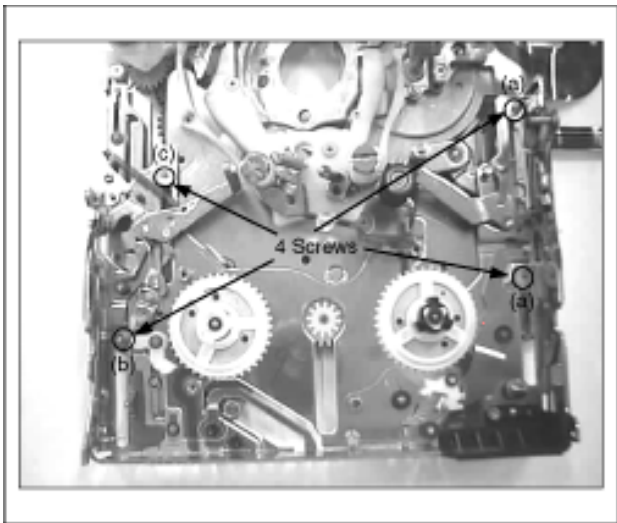


Fig. D5-2

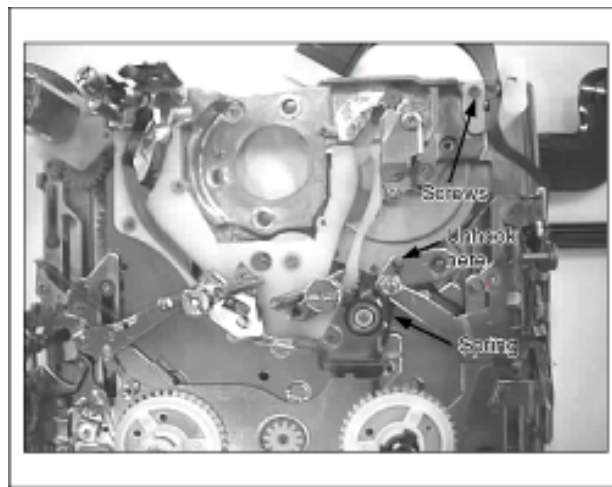


Fig. D6-1

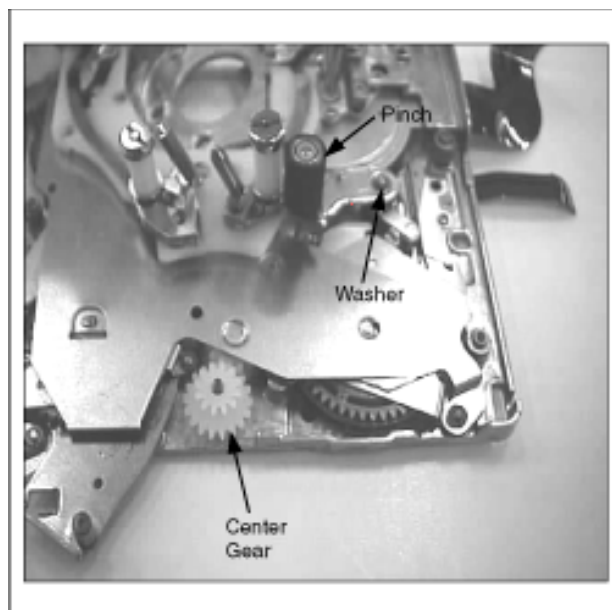


Fig. D6-2



Fig. D7-1

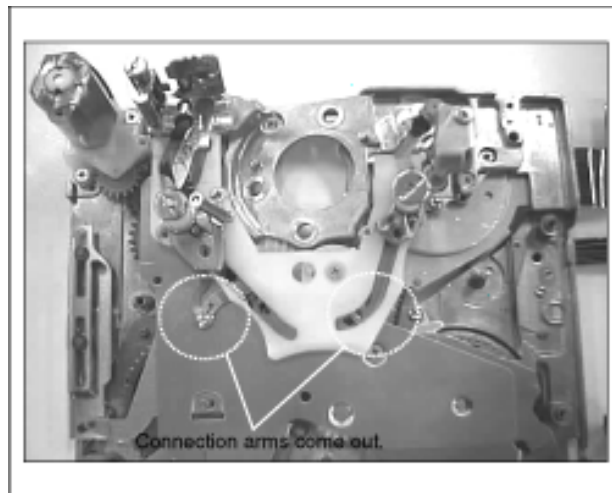


Fig. D7-2

- a) Hold Loading Gear side.
b) Disconnect connection arms.
(S-side)



(T-side)



Fig. D7-3

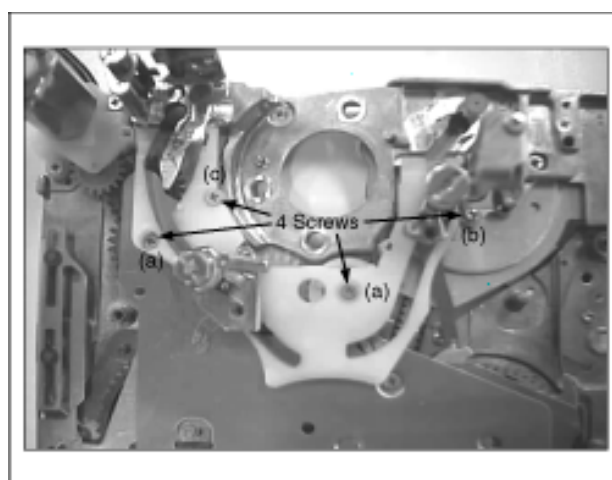


Fig. D8

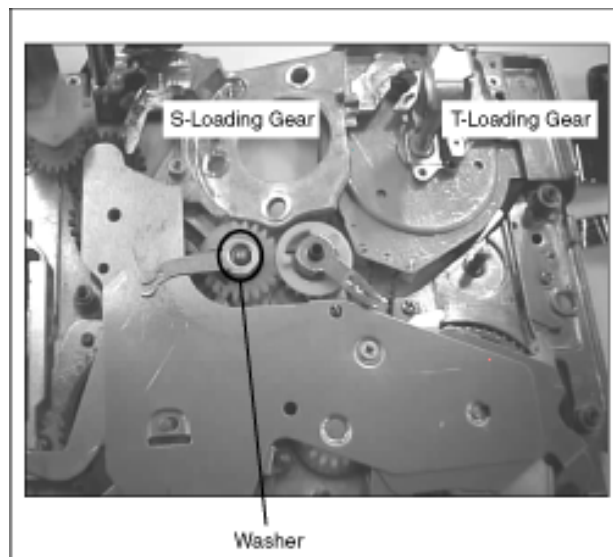


Fig. D9

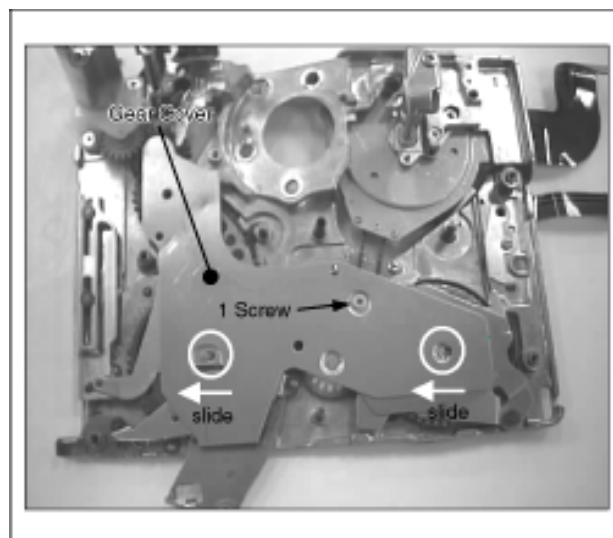


Fig. D10

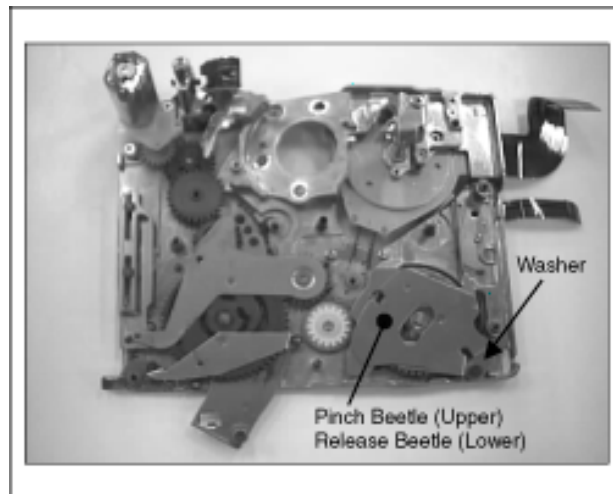


Fig. D11

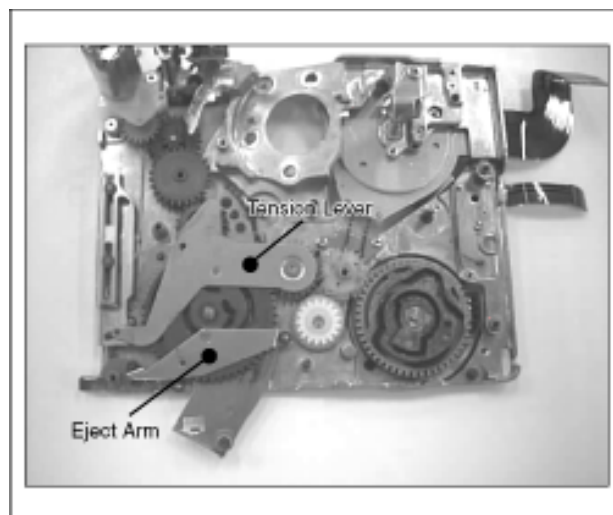


Fig. D12

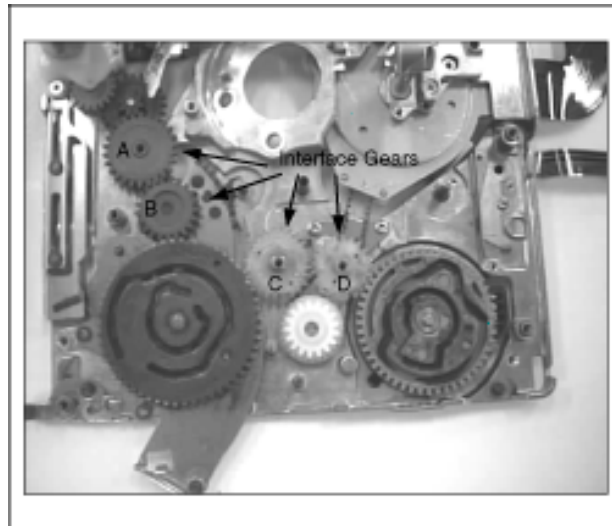


Fig. D13

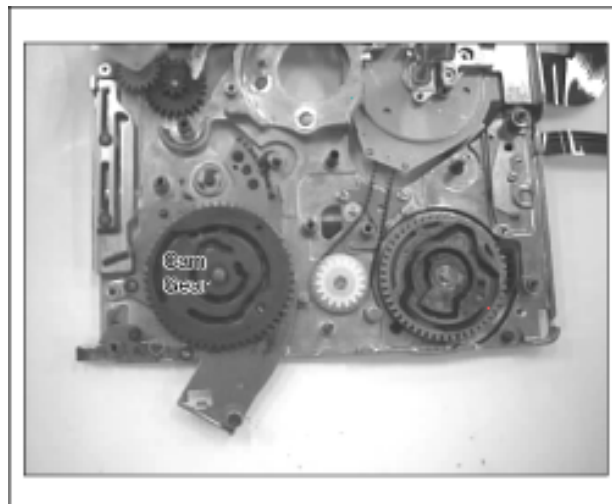


Fig. D14

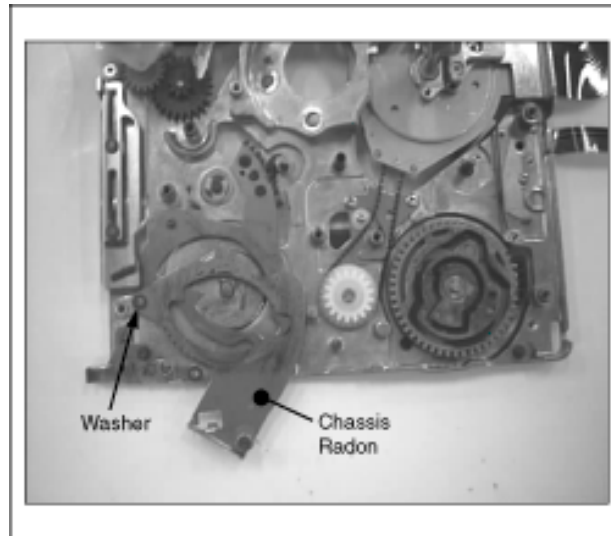


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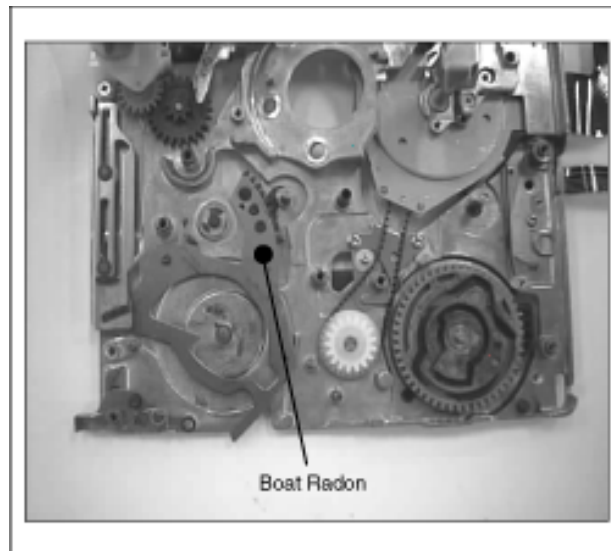


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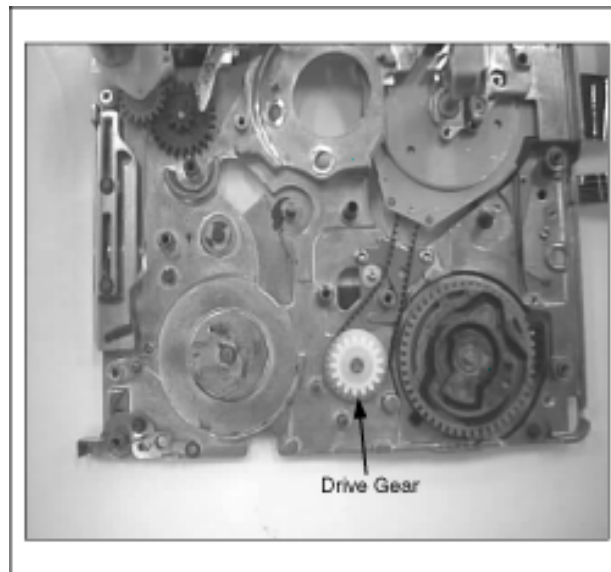


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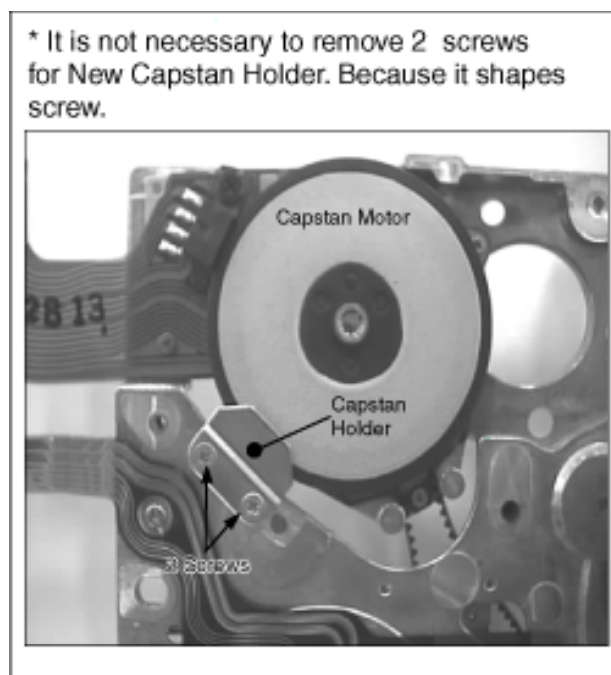


Fig. D17-2

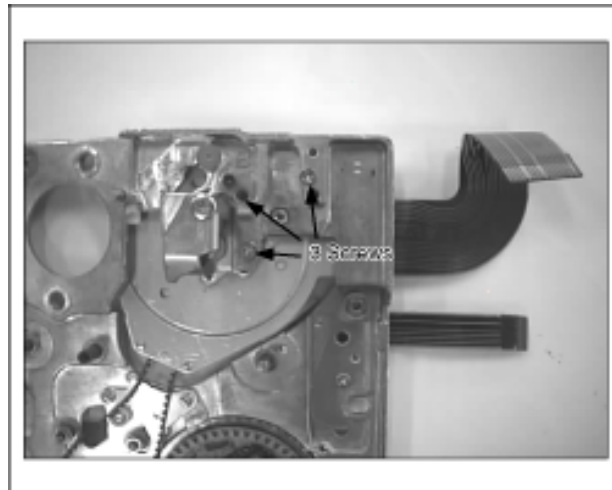


Fig. D18-1

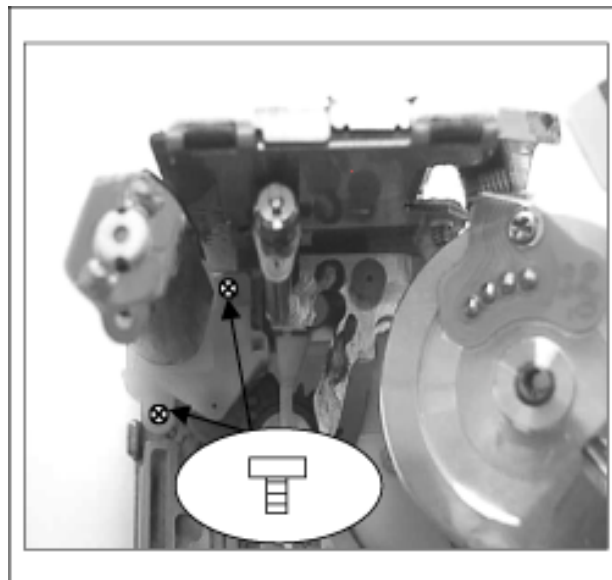


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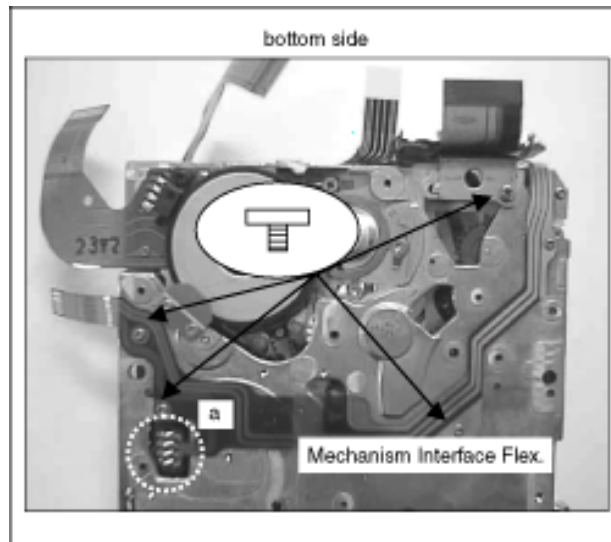


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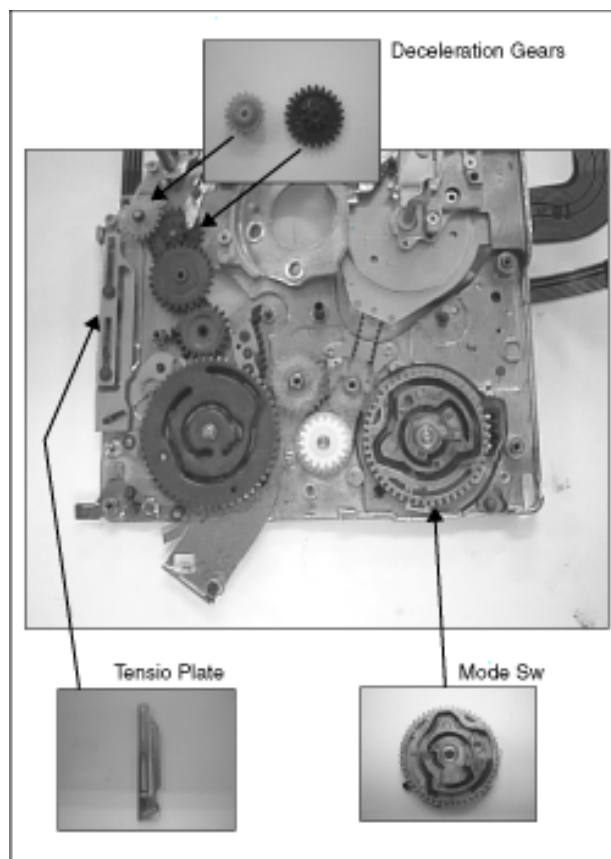


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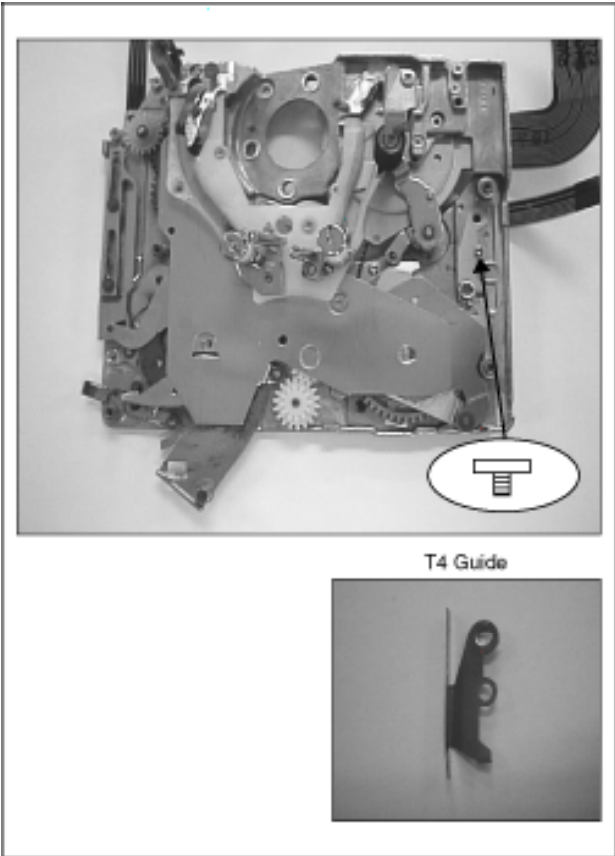


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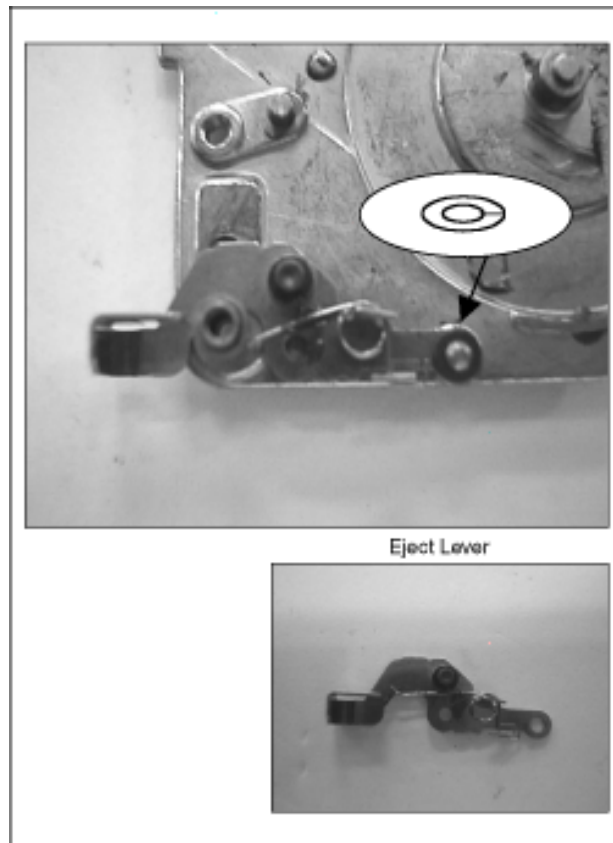


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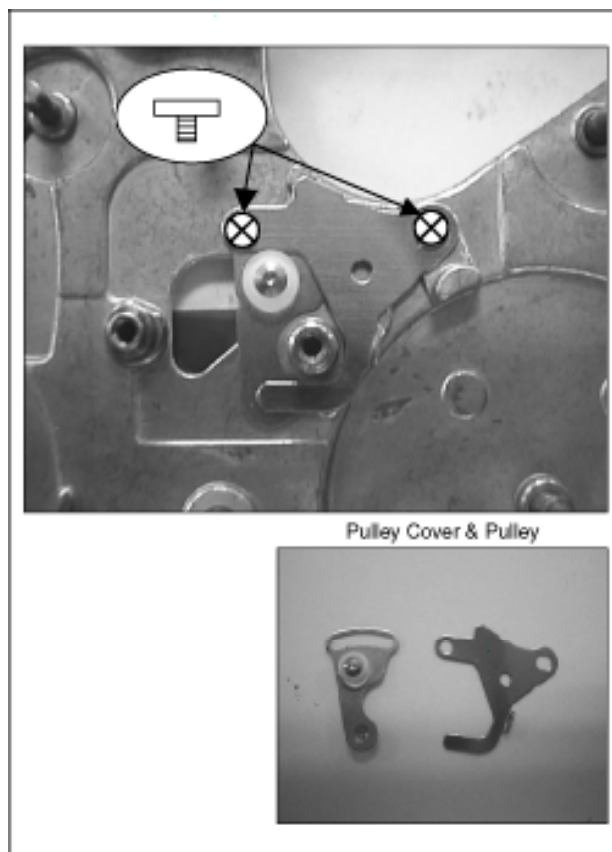
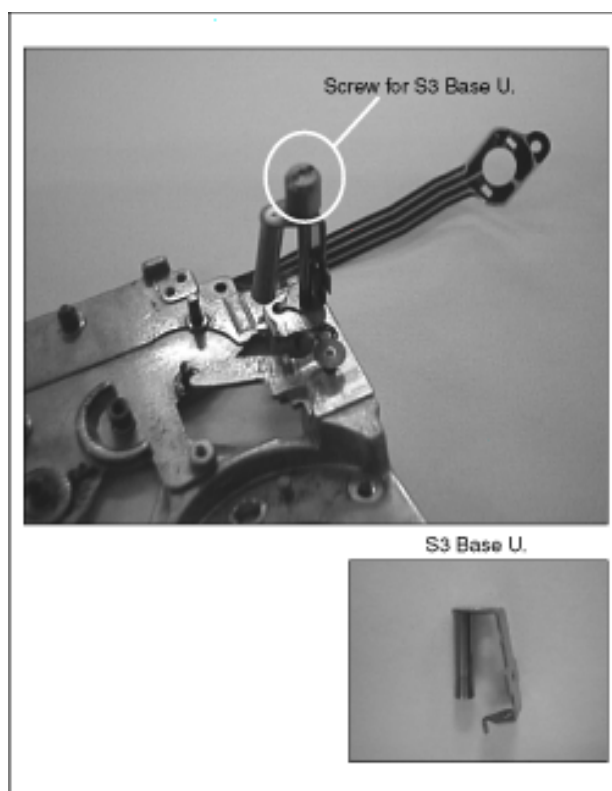


Fig. D21



4.1 ASSEMBLY PROCEDURE

[TOP](#) [PREVIOUS](#) [NEXT](#)

* 1) Procedure 20 for H.Amp Unit is applied only Q1 & Q2 mechanism.

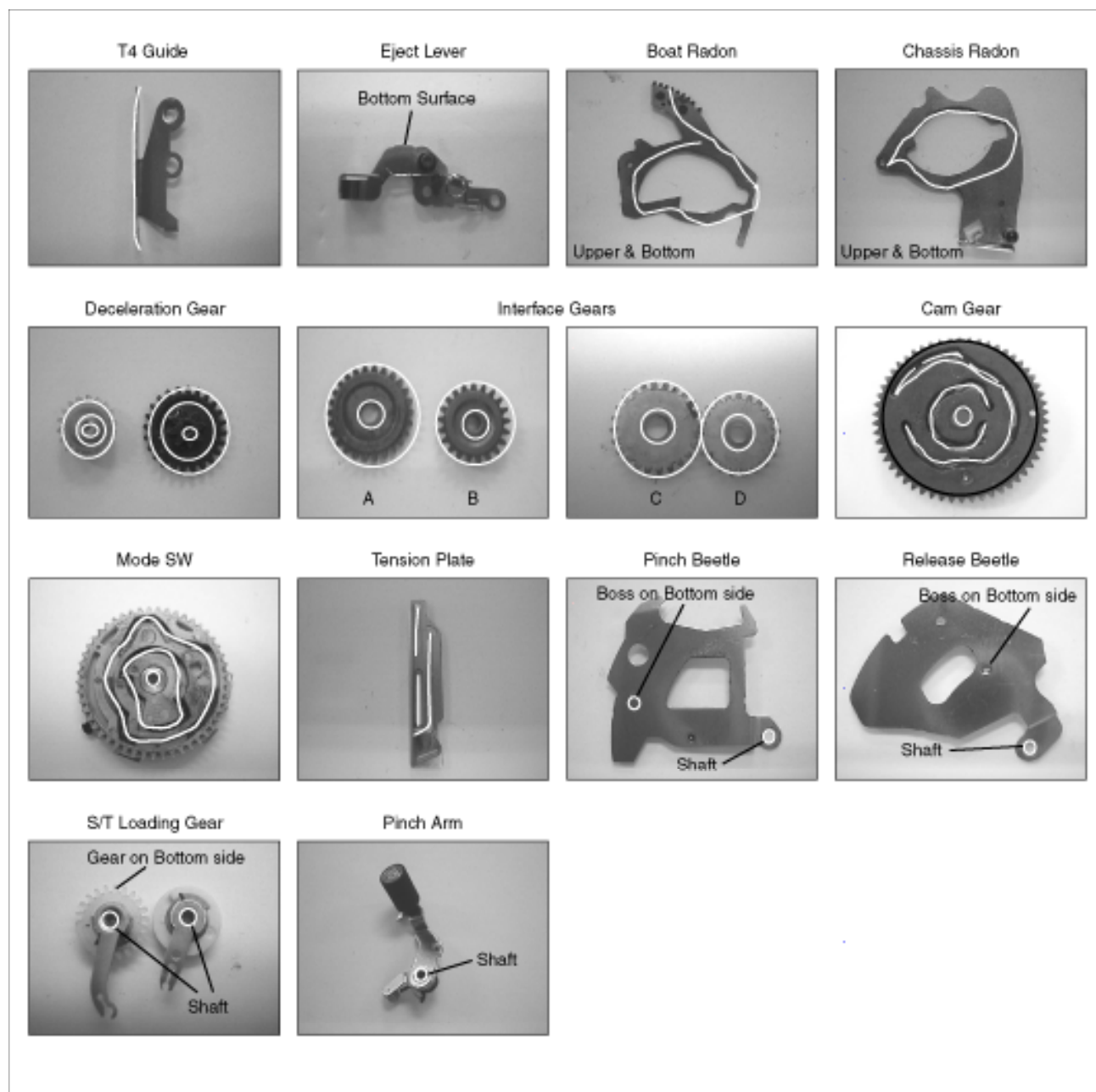
2) Procedure 1 - 3 can be changed in order.

No.	Item	Fig.	Grease	Procedure
*1	S3 Base U.	Fig. A1	--	1) Put S3 Base U on and tighten a screw.
*2	T4 Guide , Eject Lever, Pulley Cover & Pulley.	Fig. A2-1	•	1) Put hole of T4 Guide to hole of chassis and tighten a screw.
		Fig. A2-2	•	2) Put Eject Lever on and a washer.
		Fig. A2-3	--	3) Put boss of Pulley to hole of chassis on. Hole of chassis under pulley should be visible through slit of Pulley.
		Fig. A2-4	--	4) Put Pulley Cover on Pulley and tighten 2 screws.
*3	Mode Switch , Deceleration Gears & Tension Plate.	Fig. A3	•	1) Put Mode Sw on.
			•	2) Put Deceleration Gear (B) on
			•	3) Put Deceleration Gear (A) on and a washer.
			•	4) Put Tension Plate on and 2 washers.
4	Loading Motor unit & Mechanism Interface Flex.	Fig. A4	--	1) Put Loading Motor Unit on and tighten 2 screws.
			--	2) Put Mechanism Interface Flex on and tighten 4 screws. After that, solder at terminal of Mode Sw.
5	Capstan Holder & Capstan Motor	Fig. A5-1	--	1) Put Capstan Motor on and tighten 3 screws. Timing Belt should be between Pulley and boss.
		Fig. A5-2	--	2) Put Capstan Holder on and tighten 2 screws.
6	Drive Gear	Fig. A6	--	1) Put a washer to shaft and install Drive Gear. Timing Belt should be wound around Drive Gear. After that, confirm Timing Belt and Gear are rotated together.
7	Boat Radon	Fig. A7	•	1) Put hole of Boat radon to shaft of chassis.
8	Chassis Radon	Fig. A8	•	1) Put Chassis Radon and a washer on.
9	Cam Gear	Fig. A9	•	1) Put Cam Gear on. Phase Mark should be in the same line with chassis of shaft..
10	Interface Gears	Fig. A10-1	•	1) Put Interface Gear(C) & (D). Each phase mark should be in the same line.
		Fig. A10-2	•	2) Put Interface Gear(A) & (B) on.
11	Tension Lever & Eject Arm.	Fig. A11	--	1) Put boss of Tension Lever into slit of Cam Gear and Tension Plate, then tighten a screw.

				2) Put boss of Eject Arm into slit of Cam Gear. Put a washer on shaft of chassis.
12	Pinch Beetle & Release Beetle	Fig. A12	•	1) Put boss of Pinch Beetle into slit of Mode Sw. 2) Put boss of Release Beetle into slit of Mode Sw. 3) Put a washer on.
13	Gear Cover	Fig. A13	--	1) Keep sliding Gear Cover and put it on. 2) Tighten a screw.
14	T-Loading Gear & S-Loading Gear	Fig. A14	•	1) Put S-Loading Gear on. 2) Put T-Loading Gear on. Each phase mark should be in the same line.
15	Rail Unit	Fig. A15-1	--	1) Make half loading until Connection Arm comes out.
		Fig. A15-2	--	2) Connect Arm of S & T Loading Gear and Connection Arms. a) Hold Loading Gear side. b) Push Arm of S & T Loading Gear into slit of connection arms.
		Fig. A15-3	--	3) Tighten 4 screws.
16	Pinch Arm & Center Gear	Fig. A16-1	--	1) Put Center Gear Spacer on shaft of chassis. 2) Put Center Gear on.
		Fig. A16-2	•	3) Make full loading position and put Pinch arm on, then put a washer on.
17	Sub Chassis Unit	Fig. A17-1	--	1) Make unloading position until moving Release Beetle Confirm spring is exist.
		Fig. A17-2		2) Put Sub Chassis Unit on as pre-installation.
		Fig. A17-3		3) Tighten 3 screws. Make Loading position until 1 screw position appears, then tighten a screw.
		Fig. A17-4		4) Tighten a screws at Flex Holder portion and Hook spring back to Pinch Arm.
18	LED Holder, Cover plate & Idler U.	Fig. A18-1	--	1) Put Idler U into shaft of Drive Gear.
		Fig. A18-2	--	2) Put Cover Plate on and tighten 5 screws, then hook 2 springs to 2hooking portion of Sub chassis. And also put LED Flat Cable back.
		Fig. A18-3		3) Put LED Holder back.
19	Confirmation of Mechanism movement , Cylinder Unit & RT Flex. Flame.	Fig. A19-1	--	1) Confirm loading and unloading is smooth.
		Fig. A19-2	--	2) Put Cylinder Unit & Spring on and tighten 3 screws.
		Fig. A19-3	--	3) Put RT Flex. Flame on and tighten 2 screws.
*20	H Amp Unit. (Only Q1 & Q2)	Fig. A20-1	--	1) Put H Amp Unit on and tighten a screw at bottom of chassis.
		Fig. A20-2		2) Connect Cylinder Flex to connector.

		Fig. A20-3		3) Put Shield case on and tighten a screw.
21	Cassette Up Unit.	Fig. A21-1	--	1) Put both S & T sides to coupling portion on.
		Fig. A21-2		2) Tighten 3 screws. (Q1 & 2 have 4 screws)

The following parts should be applied Molyton Grease (VFK1024).



How to use washer jigs.

No.	Item	Fig.	Procedure
-----	------	------	-----------

1	Washer Jigs	Fig. W1-1	1) Each Washers.
2		Fig. W1-2	1) Put a washer on tip of Jig.
3		Fig. W1-3	1) Put Jig on shaft.
4		Fig. W1-4	1) Put a washer on shaft by pressing Jig.

Fig. W1-1

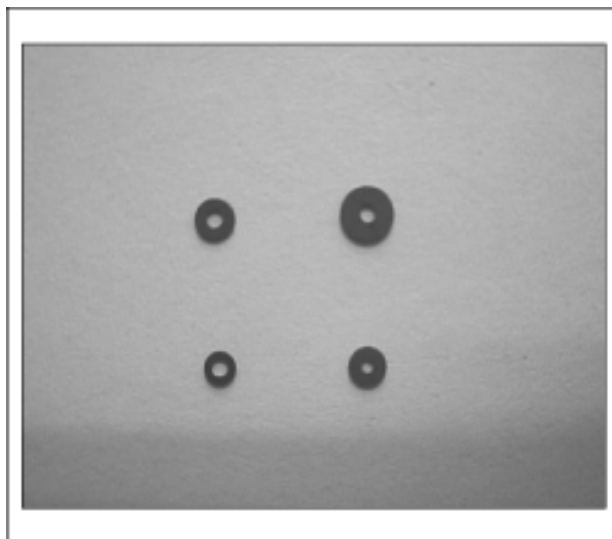


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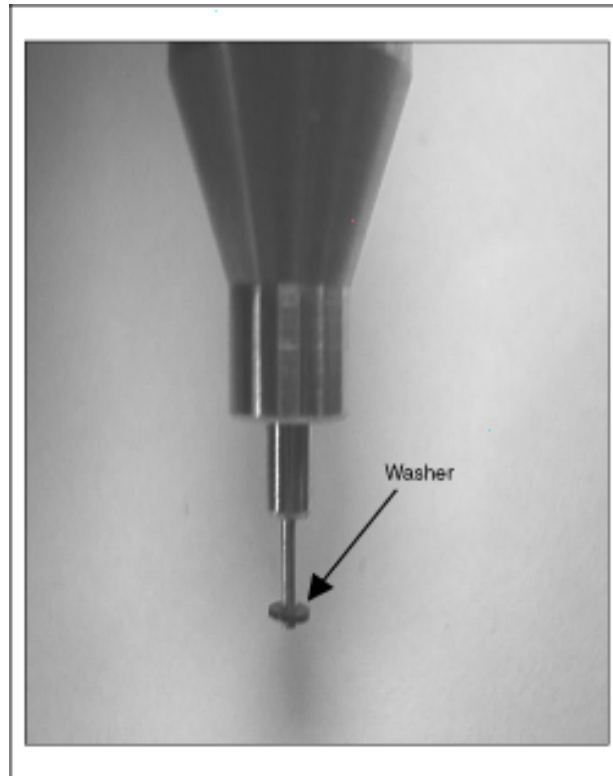


Fig. W1-3



Fig. W1-4

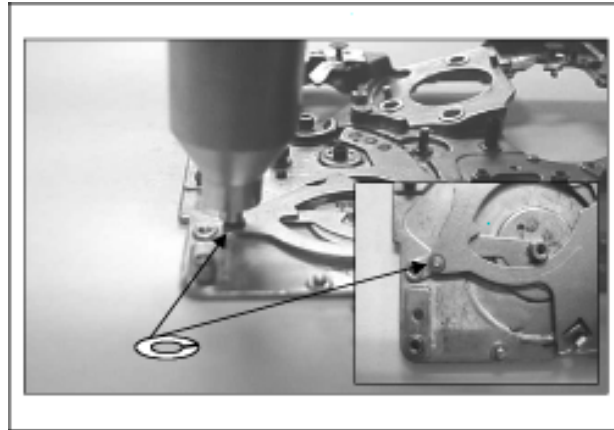


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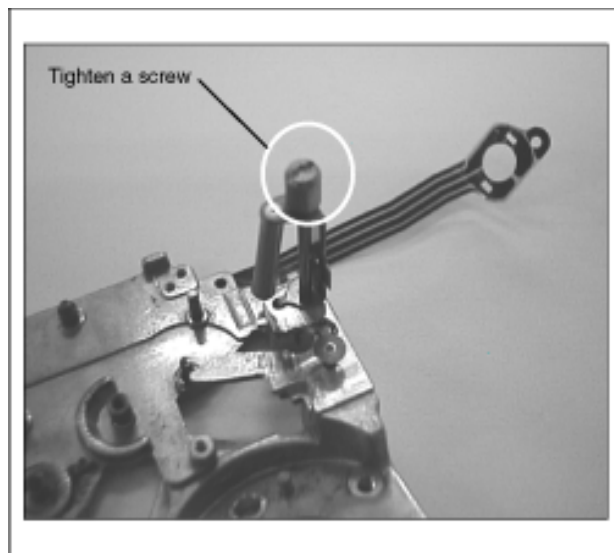


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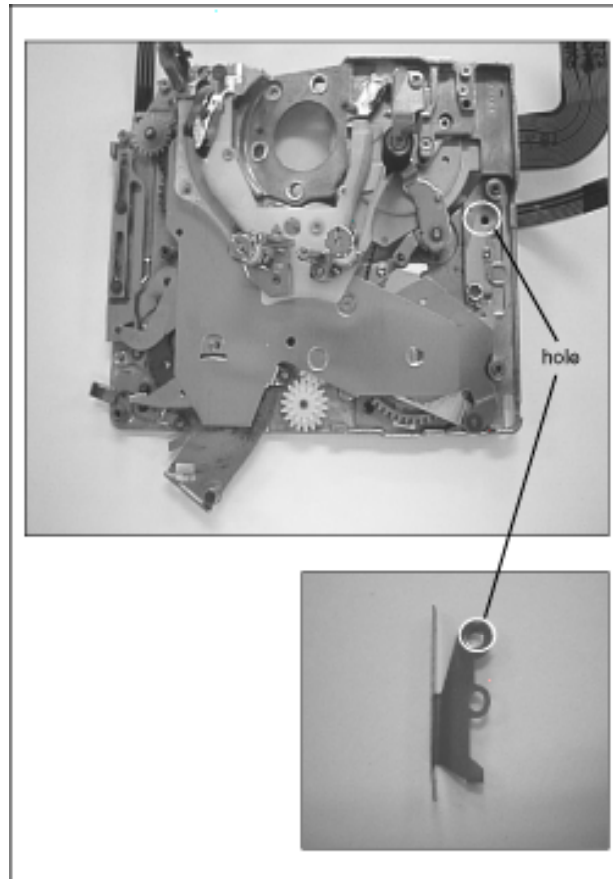


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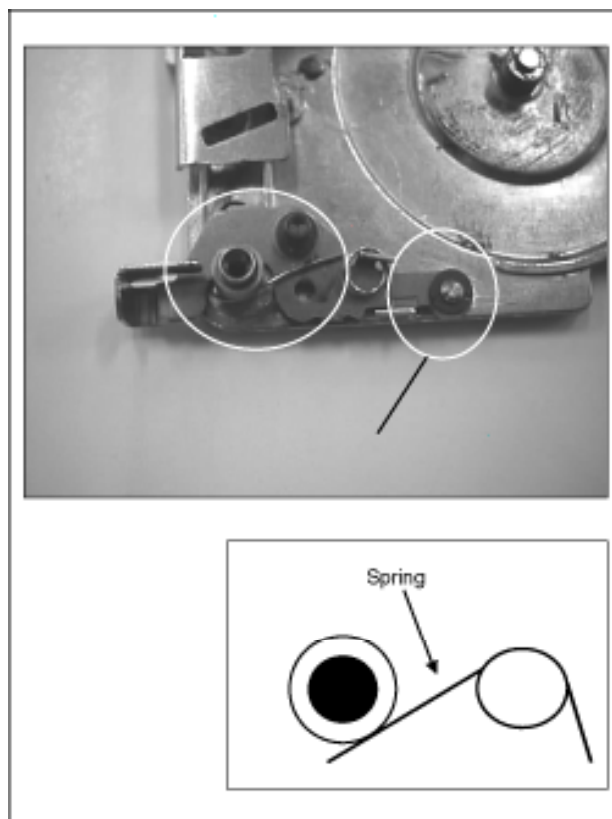


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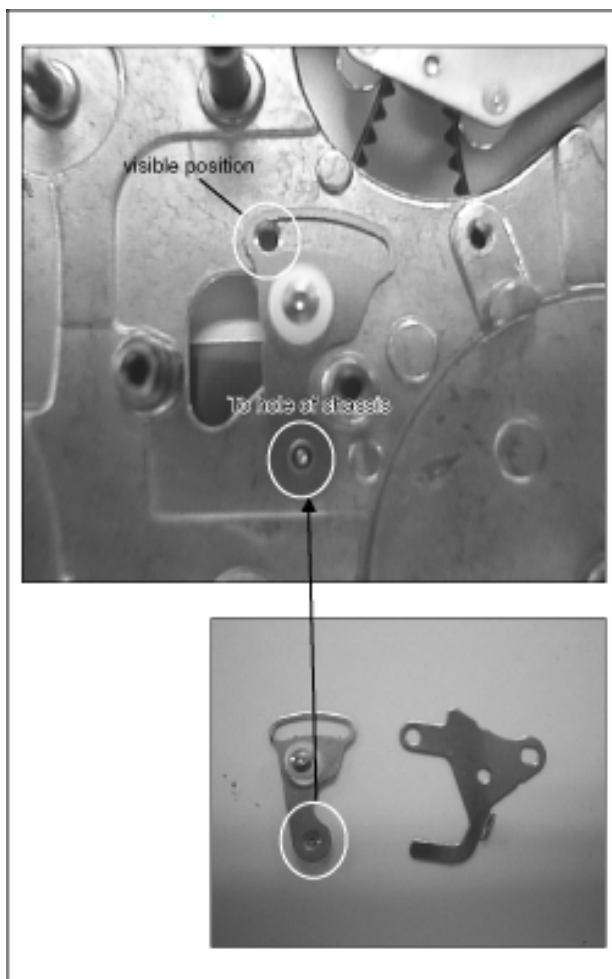


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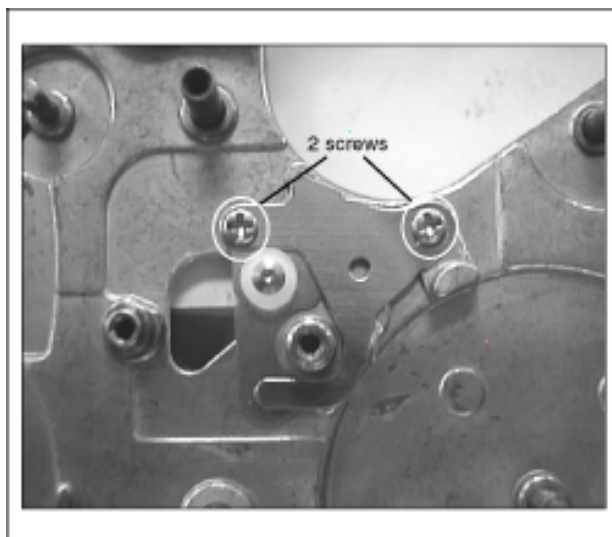


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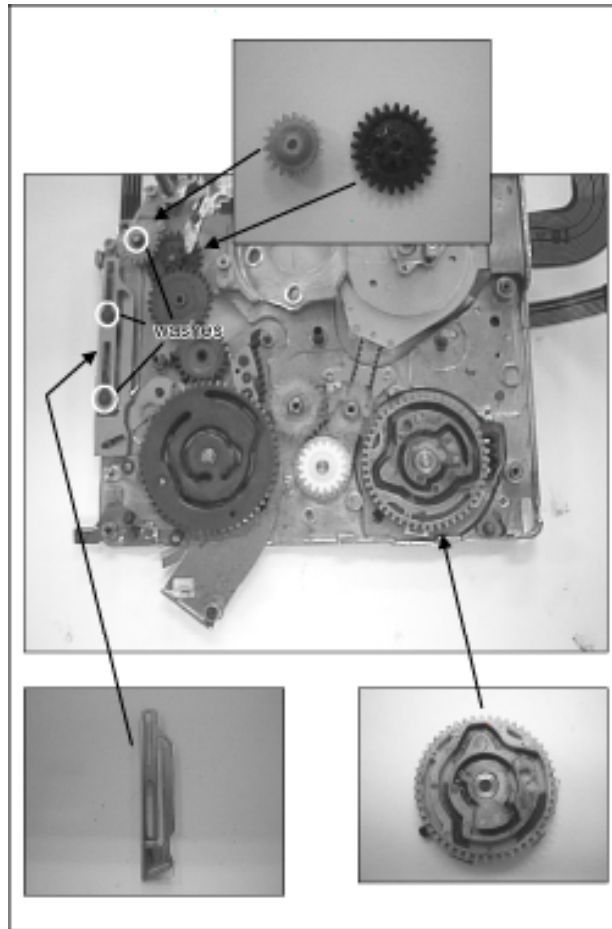


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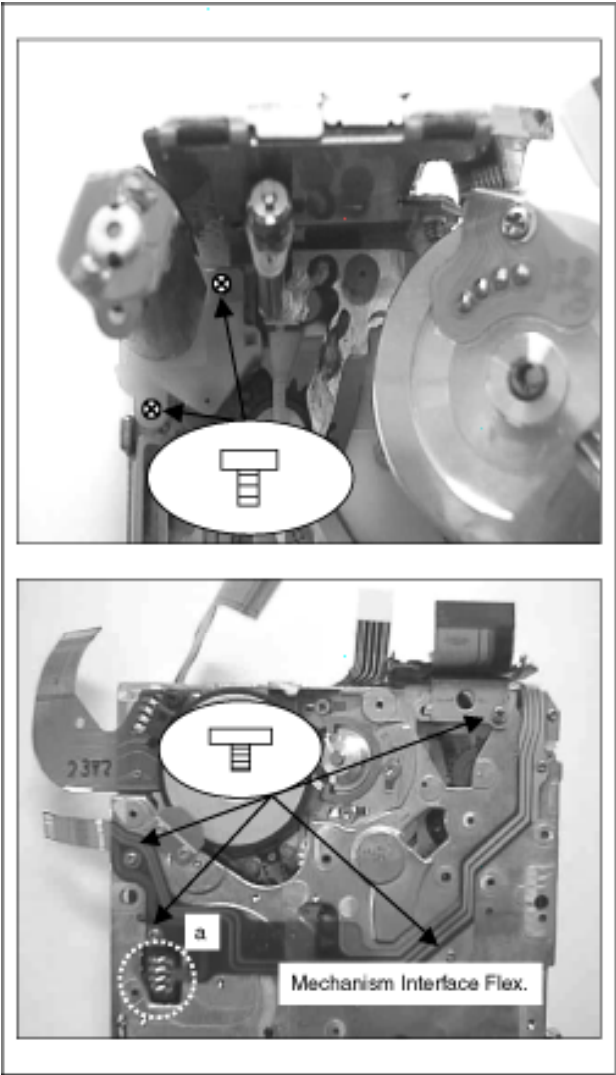


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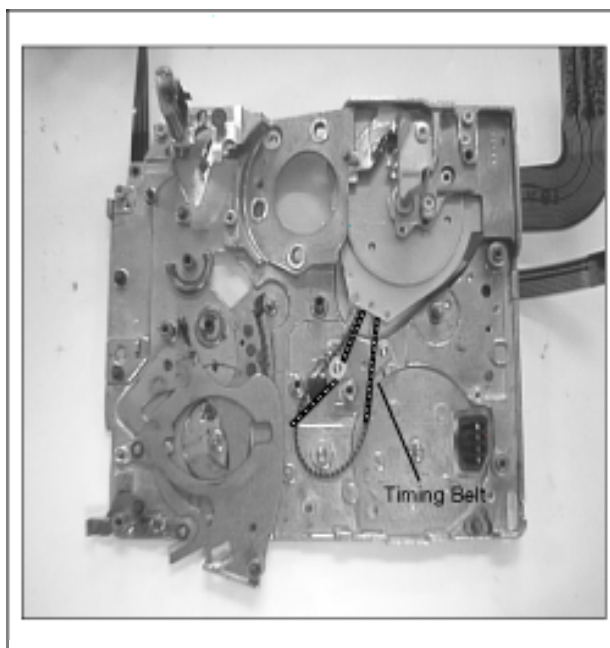


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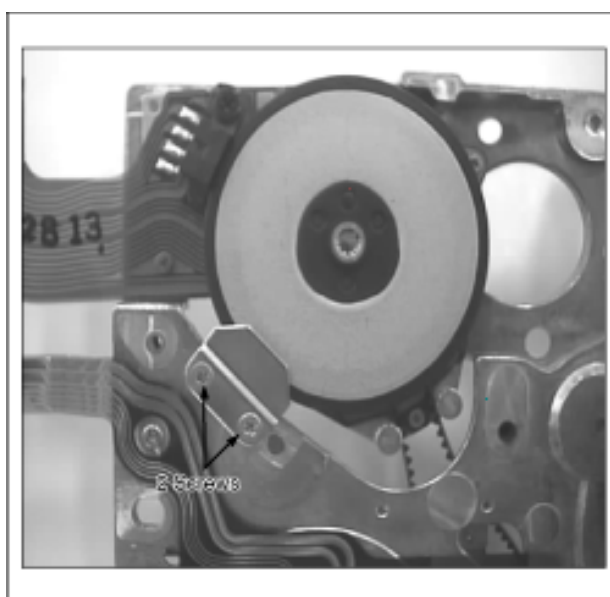


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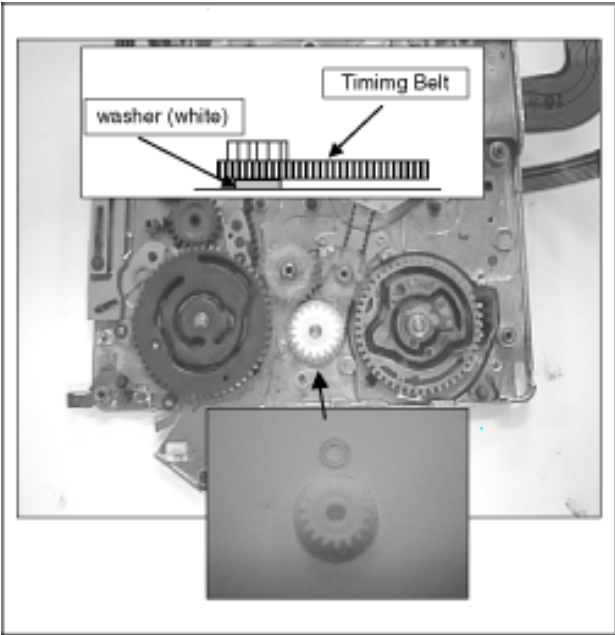


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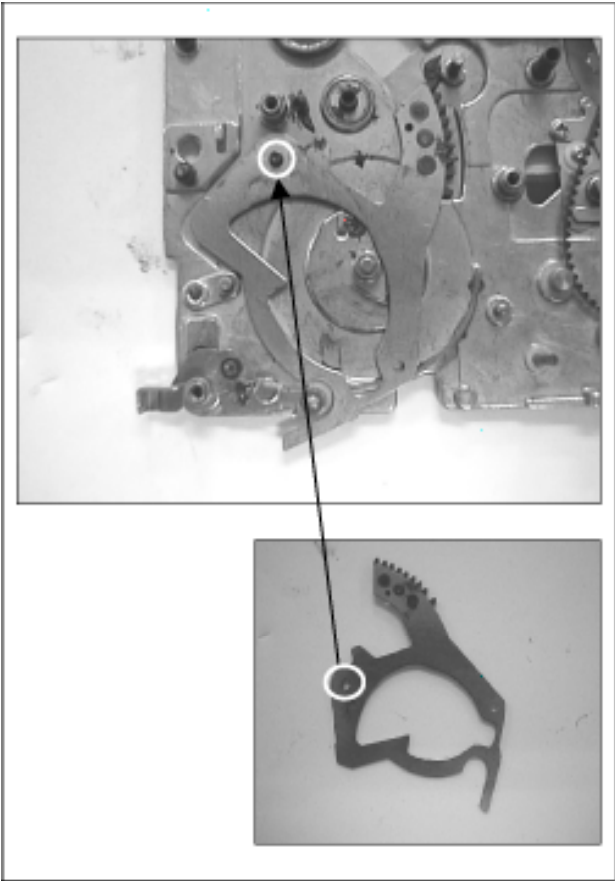


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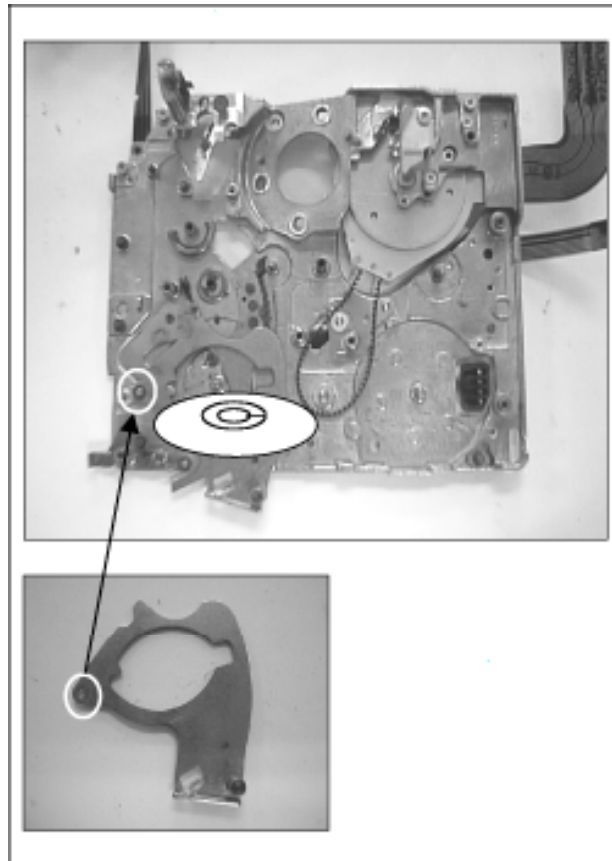


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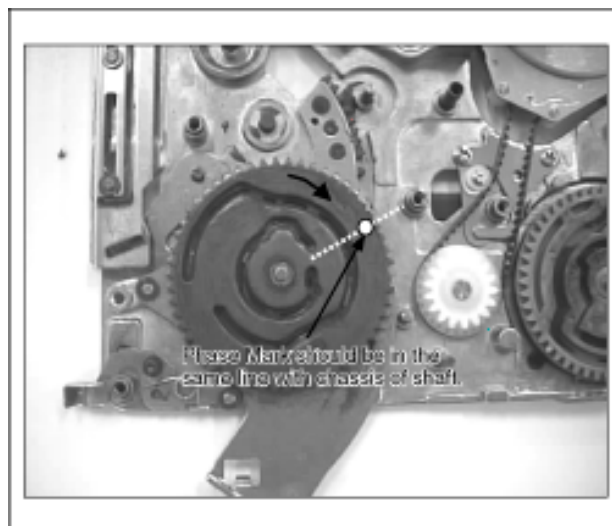


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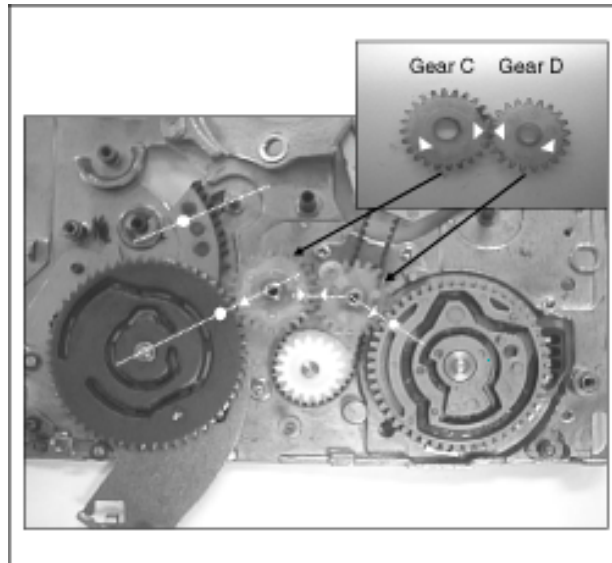


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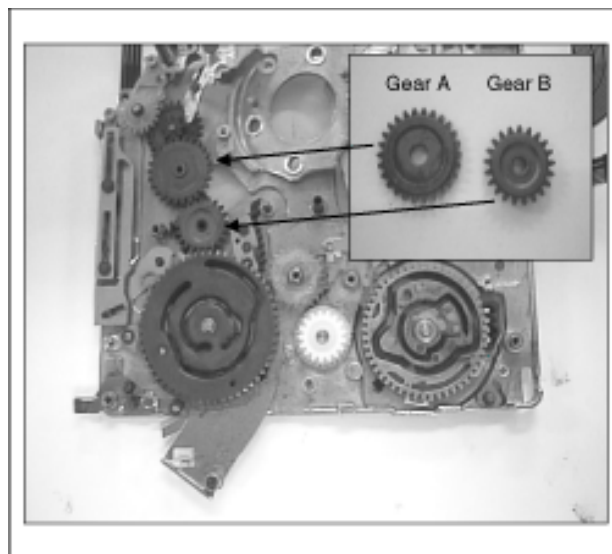


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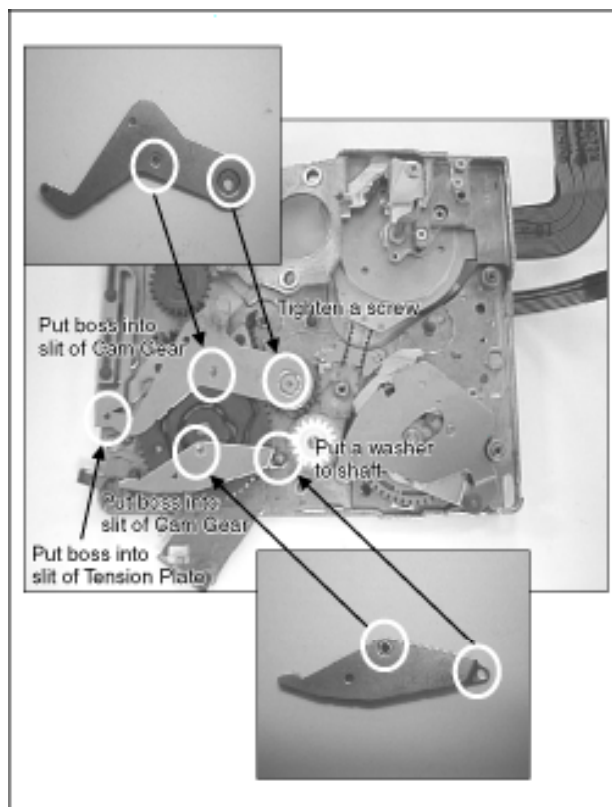


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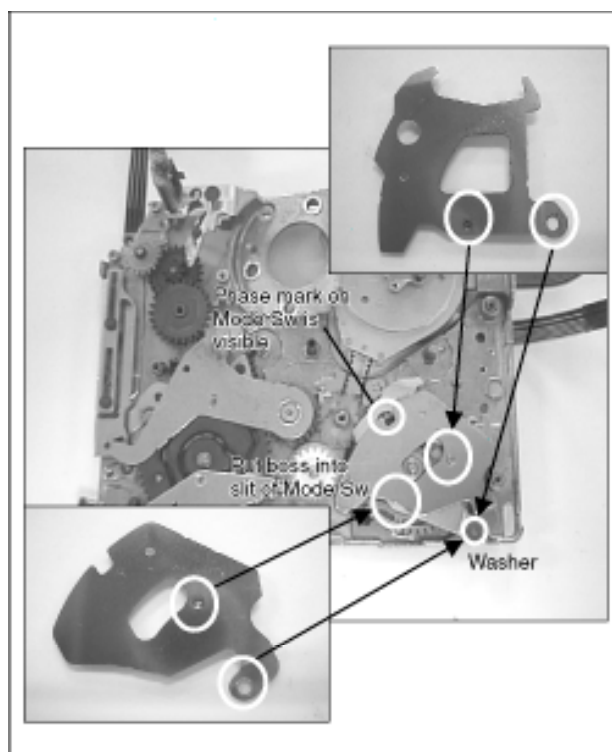


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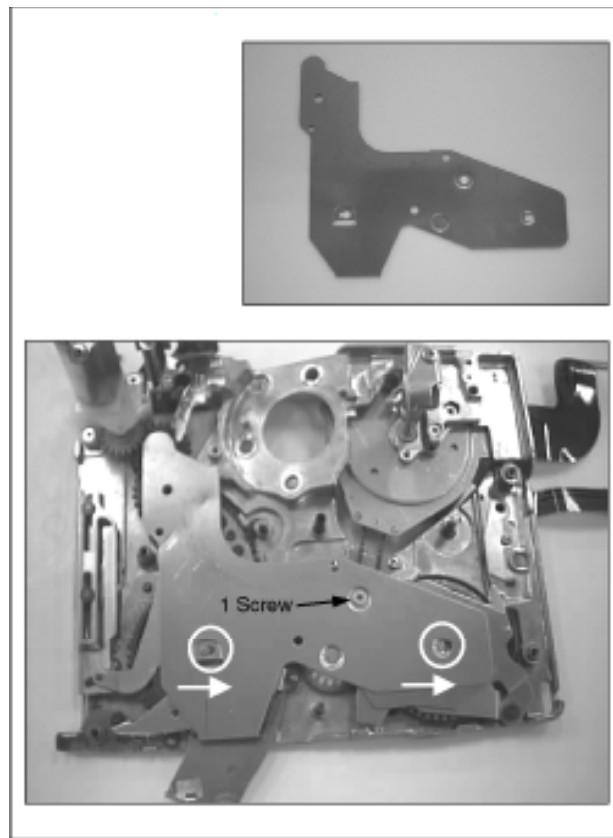


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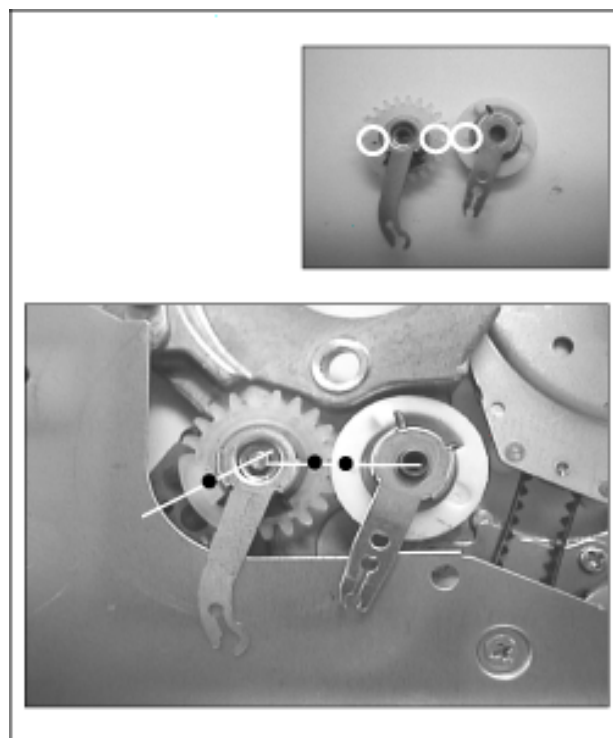


Fig. A15-1



Fig. A15-2

- a) Hold Loading Gear side.
b) Push Arm of S & T Loading Gear into slit of connection arms.

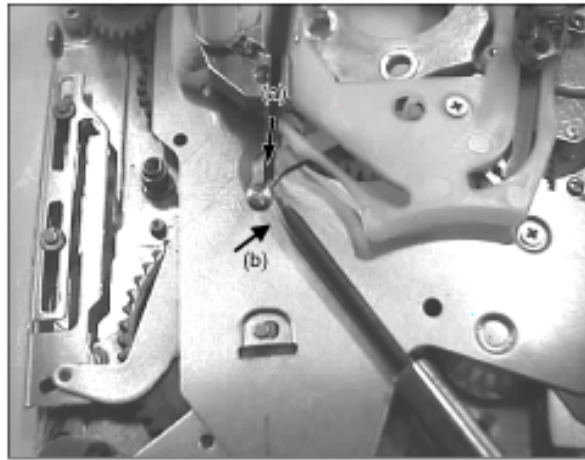


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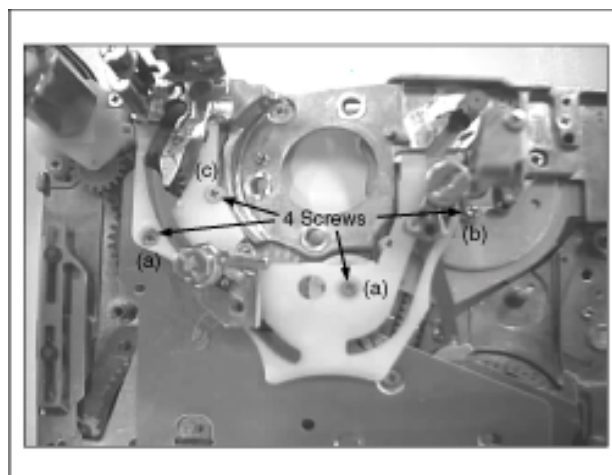


Fig. A16-1



Fig. A16-2

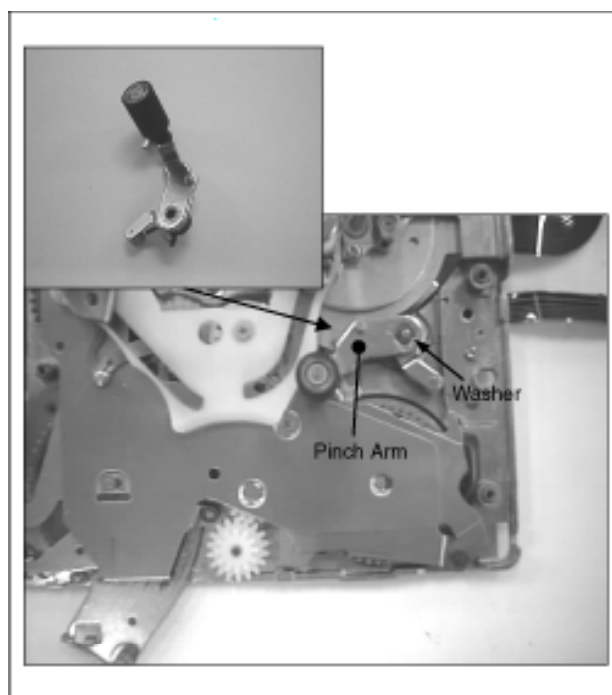


Fig. A17-1



Fig. A17-2

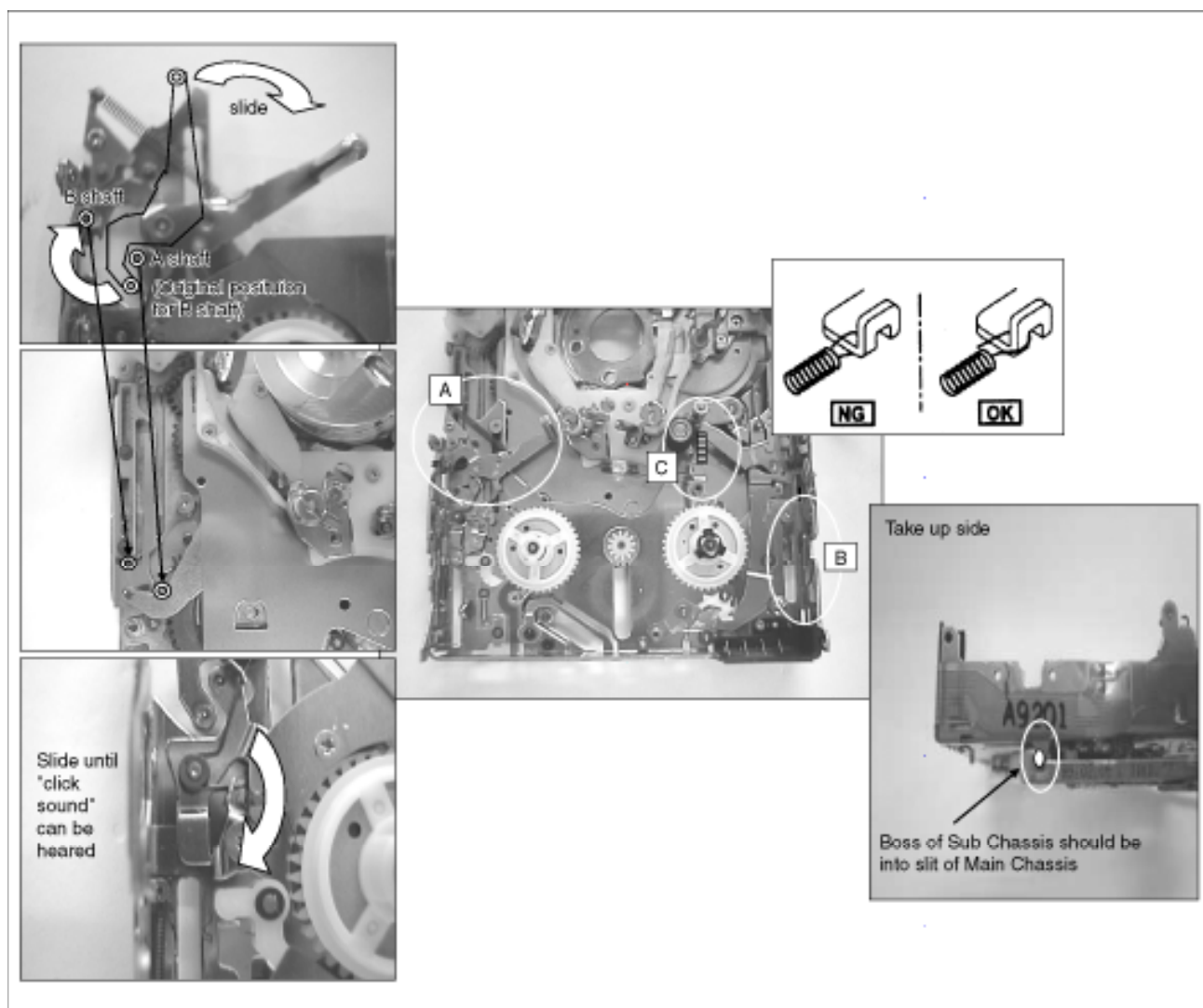


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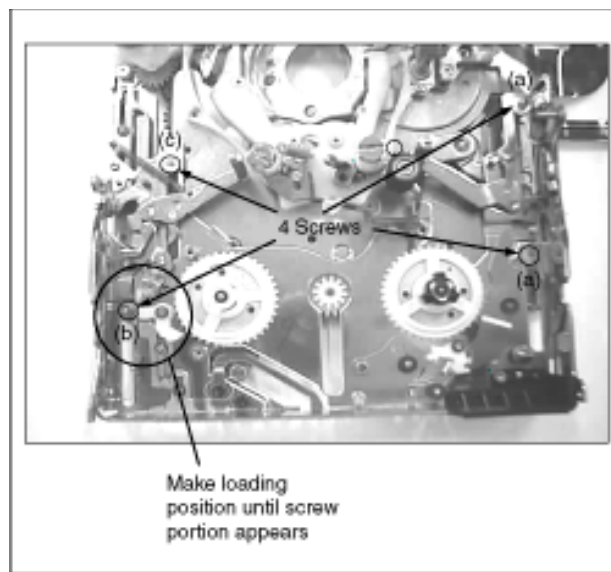


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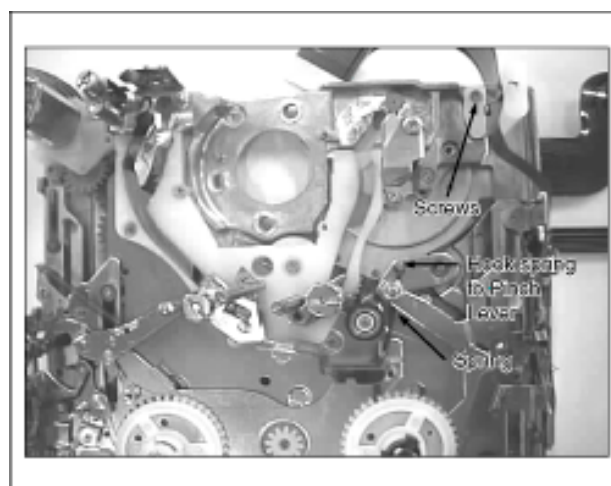


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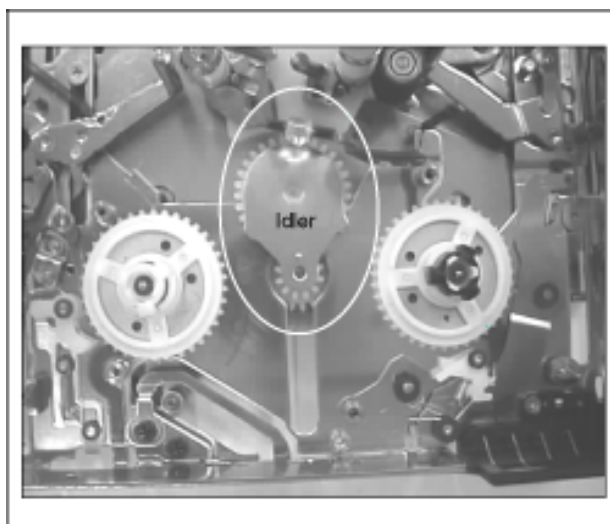


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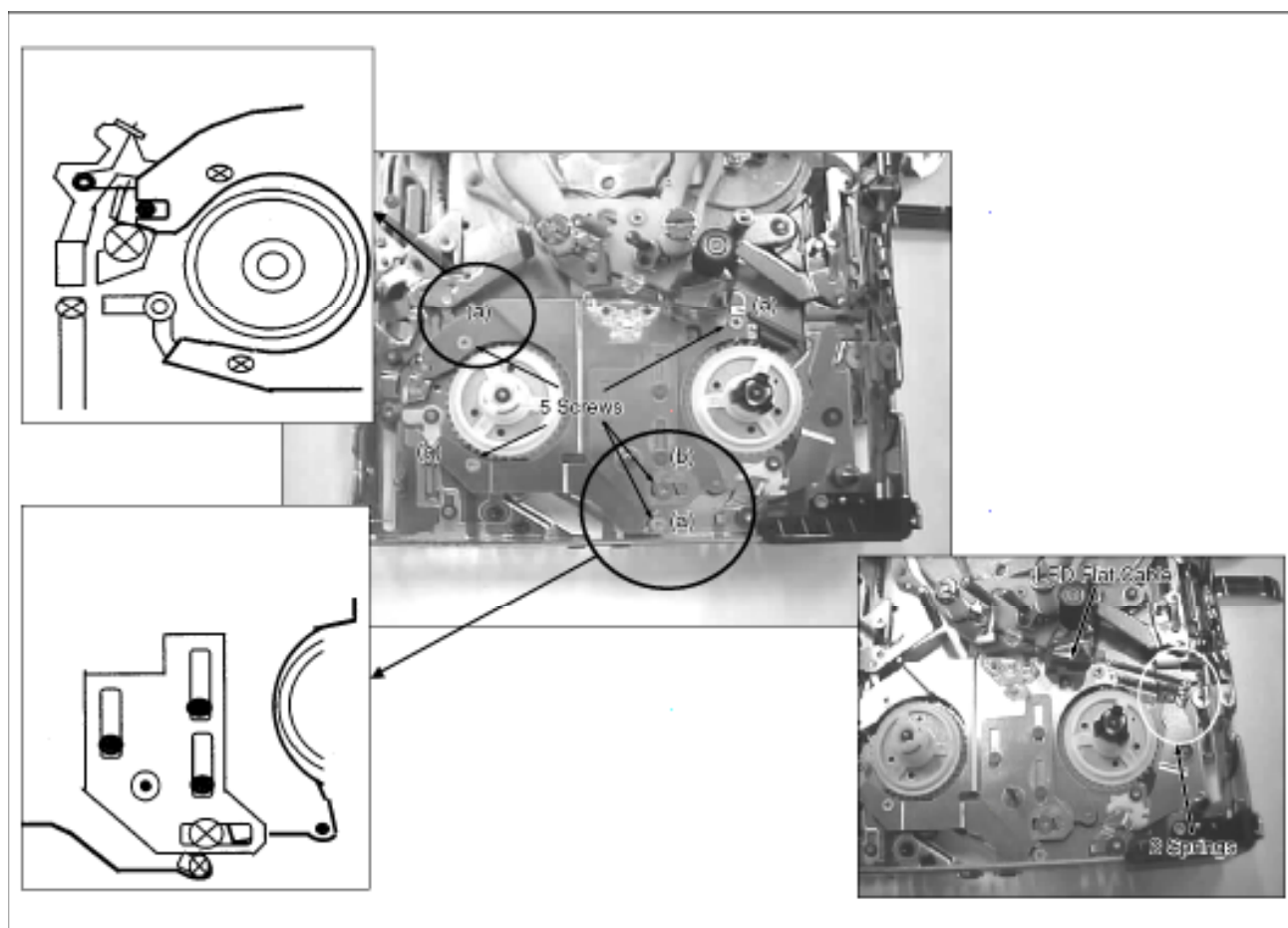


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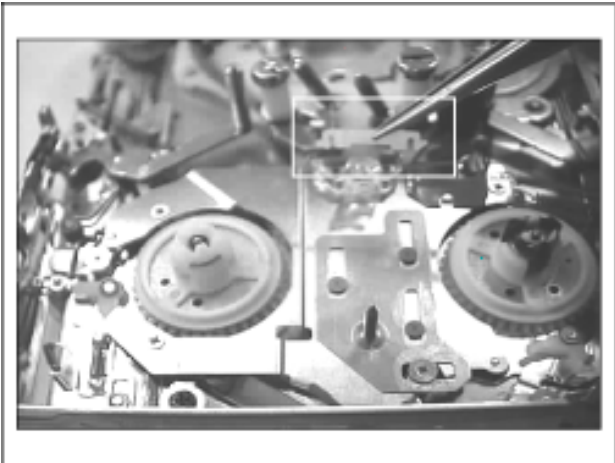


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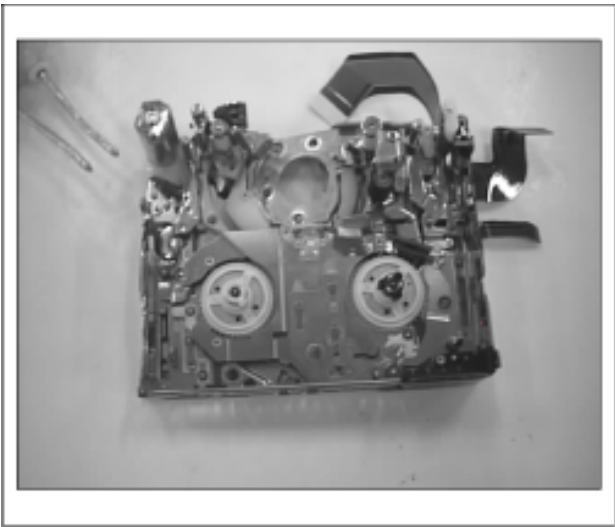


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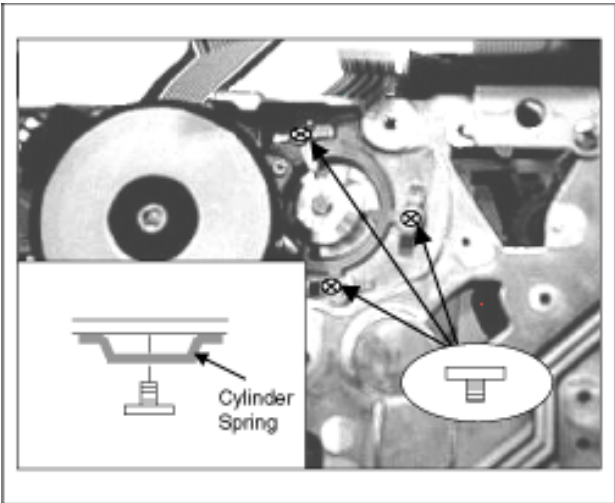


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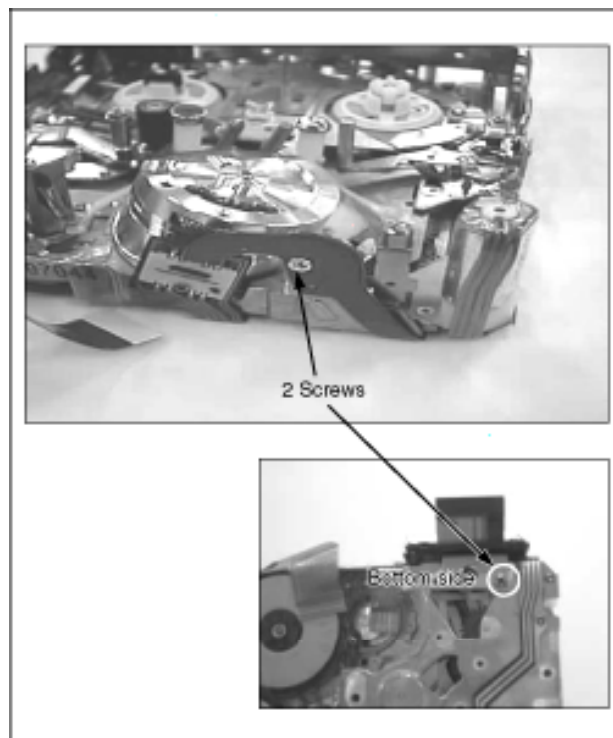


Fig. A20-1

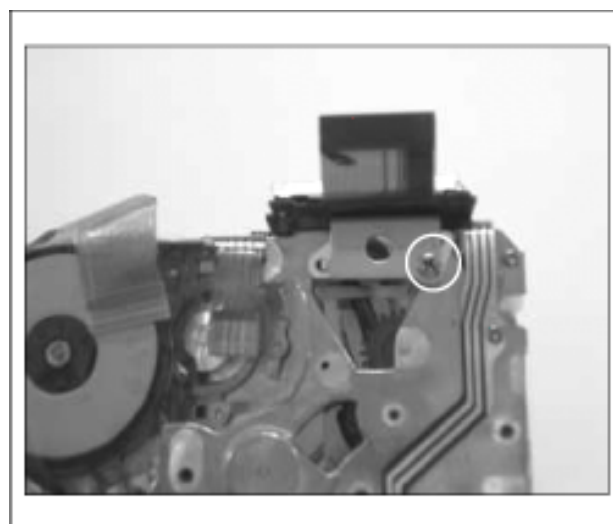


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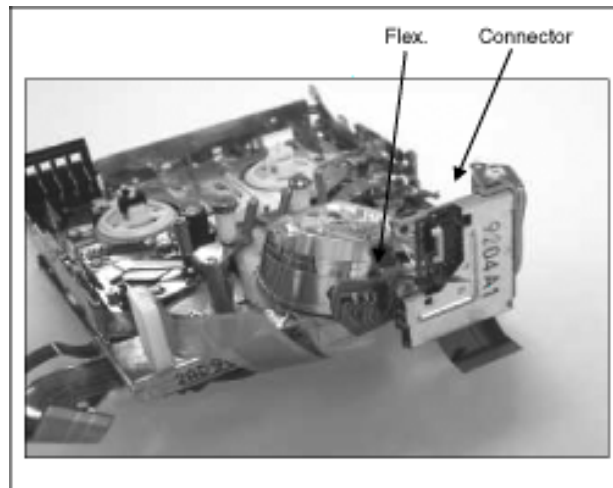


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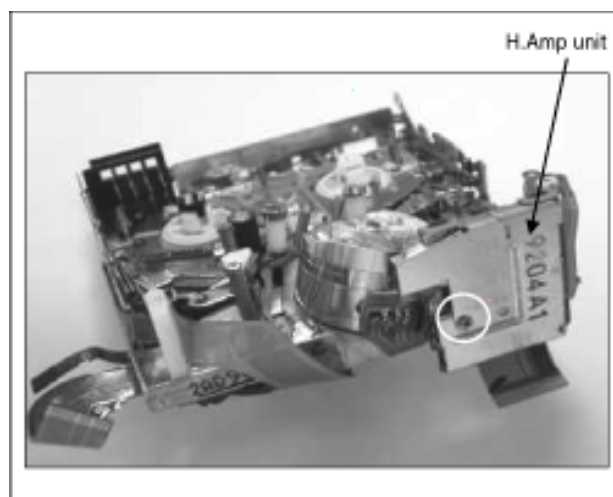


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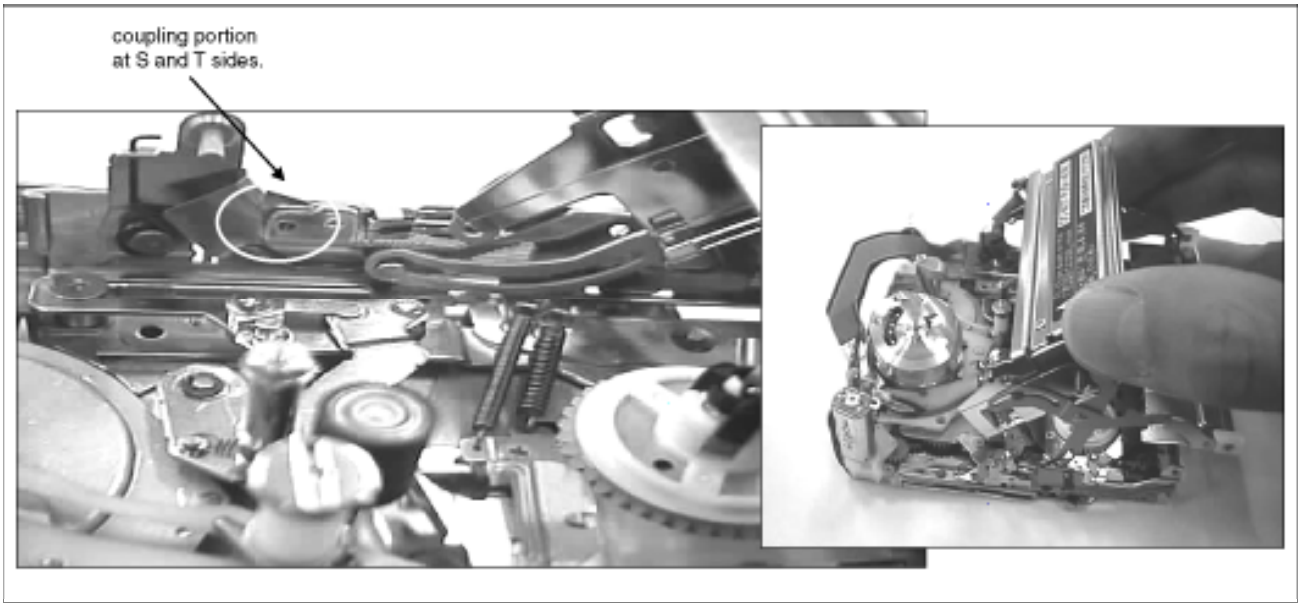


Fig. A21-2



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5.1 MECHANICAL ADJUST TABLE

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* 1) H.Amp Unit is applied only Q1 & Q2 mechanism.

No.	Item	Confirmation of Tape Running	Linearity Adjustment	Confirmation of B.E.R. Value	Capstan tilt Adjustment	S3 Base adjustment	Sub Chassis Adjustment
1	MECHANISM CHASSIS	--	--	•	--	--	--
2	Cassette Up Unit.	--	--	--	--	--	--
*3	H Amp Unit.	--	--	•	--	--	--
4	Cylinder Unit	•	•	•	--	--	--
5	RT Flex. Flame.	--	--	--	--	--	--
6	LED Holder	--	--	--	--	--	--
7	Cover Plate	--	--	--	--	--	--
8	Idler U.	--	--	•	--	--	--
9	Sub Chassis Unit	•	•	•	--	--	•
10	Pinch Arm	•	•	•	--	--	--
11	Center Gear	--	--	•	--	--	--
12	Rail Unit	•	•	•	--	--	--
13	S-Loading Gear	--	--	•	--	--	--
14	T-Loading Gear	--	--	•	--	--	--
15	Gear Cover	--	--	•	--	--	--
16	Pinch Beetle	--	--	•	--	--	--
17	Release Beetle	--	--	•	--	--	--
18	Tension Lever	•	•	•	--	--	--
19	Eject Arm	--	--	--	--	--	--
20	Interface Gears	--	--	•	--	--	--
21	Cam Gear	--	--	•	--	--	--
22	Chassis Radon	--	--	--	--	--	--
23	Boat Radon	--	--	--	--	--	--
24	Drive Gear	--	--	•	--	--	--
25	Capstan Holder	--	--	--	--	--	--
26	Capstan Motor	•	•	•	•	--	--
27	Loading Motor Unit	--	--	--	--	--	--

28	Mechanism Interface Flex.	--	--	--	--	--	--
29	Mode Switch	--	--	--	--	--	--
30	Deceleration Gears	--	--	•	--	--	--
31	Tension Plate	•	•	•	--	--	--
32	T4 Guide	--	--	--	--	--	--
33	Eject Lever	--	--	--	--	--	--
34	Pulley Cover	--	--	--	--	--	--
35	Pulley	--	--	--	--	--	--
36	S3 Base U.	•	•	•	--	•	--

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5.2 MECHANICAL ADJUSTMENT PROCEDURE

[TOP](#) [PREVIOUS](#) [NEXT](#)

No.	Item	Equipment	Fig.	Procedure
1	Confirmation of Tape Running	1. Alignment Tape (PAL: VFM3110EDS/NTSC: VFM3010EDS) 2. Post Adjustment Driver(VFK1278)	Fig. AD1-1	1) Confirm each post position in playback mode.
			Fig. AD1-2	2) Confirm condition of tape regulation in playback & review mode.
2	Linearity Adjustment	1. Tatsujin system(Refer to Fig.)	Fig. AD2-1	1) Set up Tatsujin System.
		2. Alignment Tape (PAL: VFM3110EDS/NTSC: VFM3010EDS)	Fig. AD2-2	2) Connect Envelope Detector Board between Measuring Board & Oscilloscope.
		3. Envelope Detecor Board (VFK1641) 4. Post Adjustment Driver (VFK1278)	--	3) Remove Adjustment Cover. * Location for Adjustment Cover depends on Models.
			Fig. AD2-3	4) Playback the Alignment Tape and adjust S2 & T3 posts by Screw Driver until wavefom becomes flat. After adjustment, B.E.R. should be confirmed by Electrical adjustment on the "Tatsujin".
3	Confirmation of B.E.R. Value	1. Tatsujin system(Refer to Fig.)	Fig. AD2-1	1) Refer to Electrical Adjustment on the "Tatsujin".
4	Capstan tilt Adjustment	1. Capstan Tilt Adj. Jig(VFK1638) 2. Small Phillips Screw Driver	Fig. AD4-1	1) Slide sensor pin to Capstan shaft. After touching,if OK, LED should be lit. * Do not touch when you confirm LED lit or not.
			Fig. AD4-2	2) If Ng, Capstan tilt should be adjusted. a) Tighten screw (A) until LED is lit. b) Loose screw (B) until LED is not lit. c)Tightenscrew (A) anti-clockwise until LED is lit .
5	S3 Base adjustment	1. Post Adjustment Driver(VFK1278)	Fig. AD5-1	1) Adjust S3 screw as Evvelope becomes flat.
			Fig. AD5-2	2) Tighten a screw 180 degree as "ENV 1". 3) Loosen a screw as ENV 2. 4) Tighten a screw until ENV becomes flat as ENV 3 and tighten a screw 180 degree again.
6	Sub Chassis Adjustment	1. Small Phillips Screw Driver	Fig. AD6-1	1) Make Review Position. * Set Loading mode and then,stop Pinch Roller & Capstan shaft is touched.

Fig. AD6-2

2) Loosen a screw.
After fixing a shaky Sub Chassis, then
tighten a screw.

Fig. AD1-1

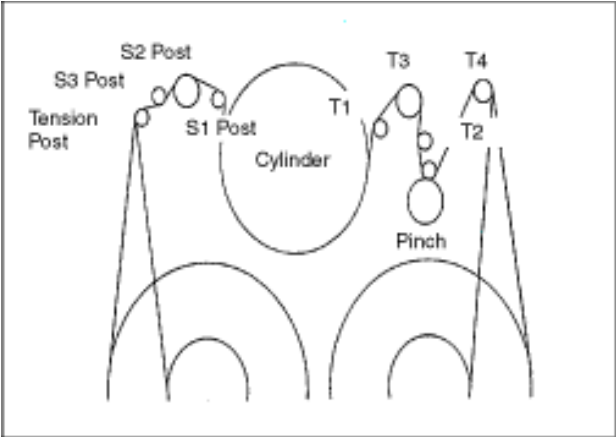


Fig. AD1-2

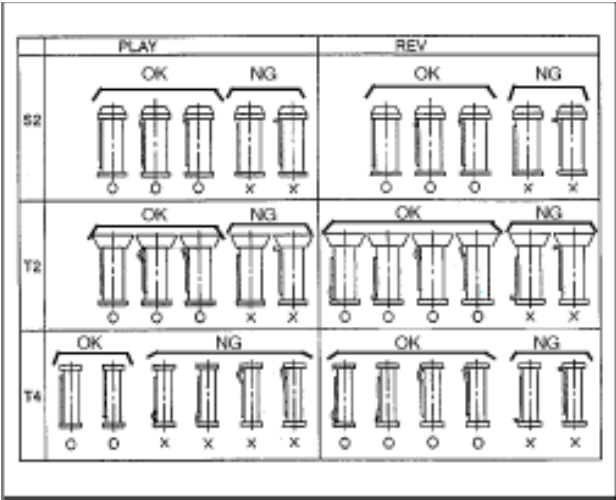


Fig. AD2-1

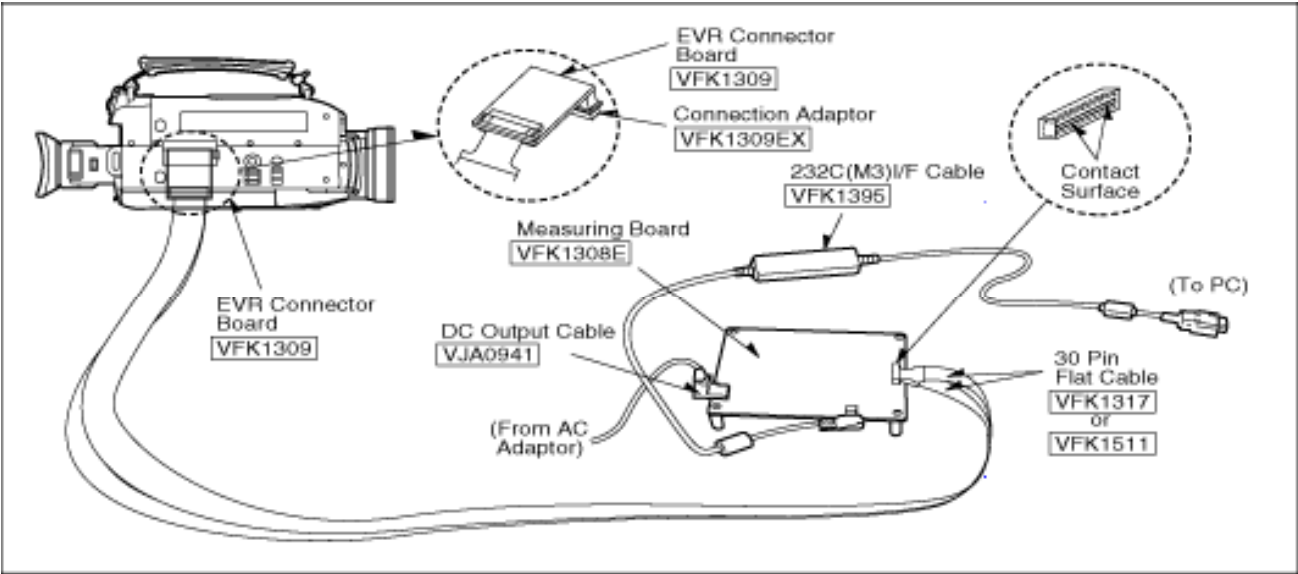


Fig. AD2-2

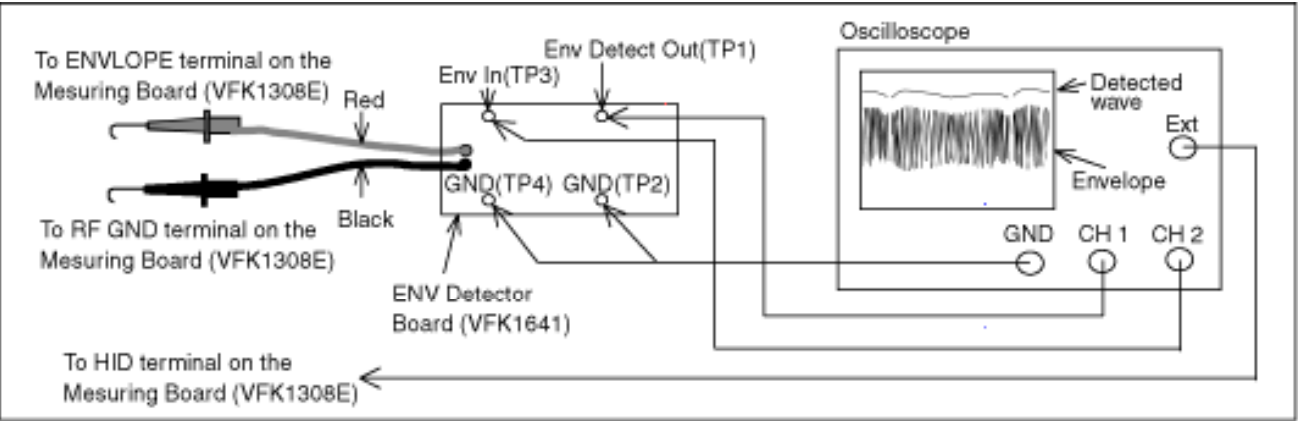


Fig. AD2-3

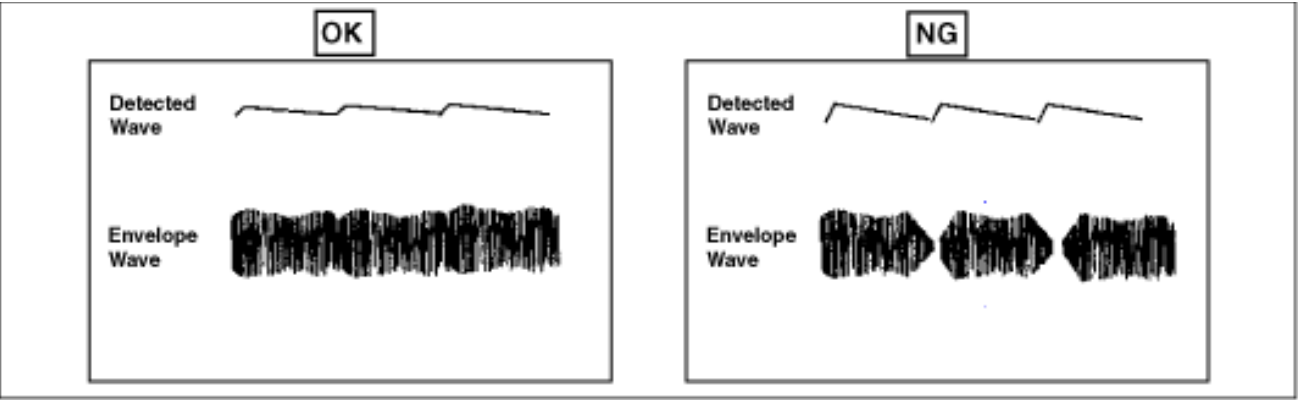


Fig. AD4-1



Fig. AD4-2

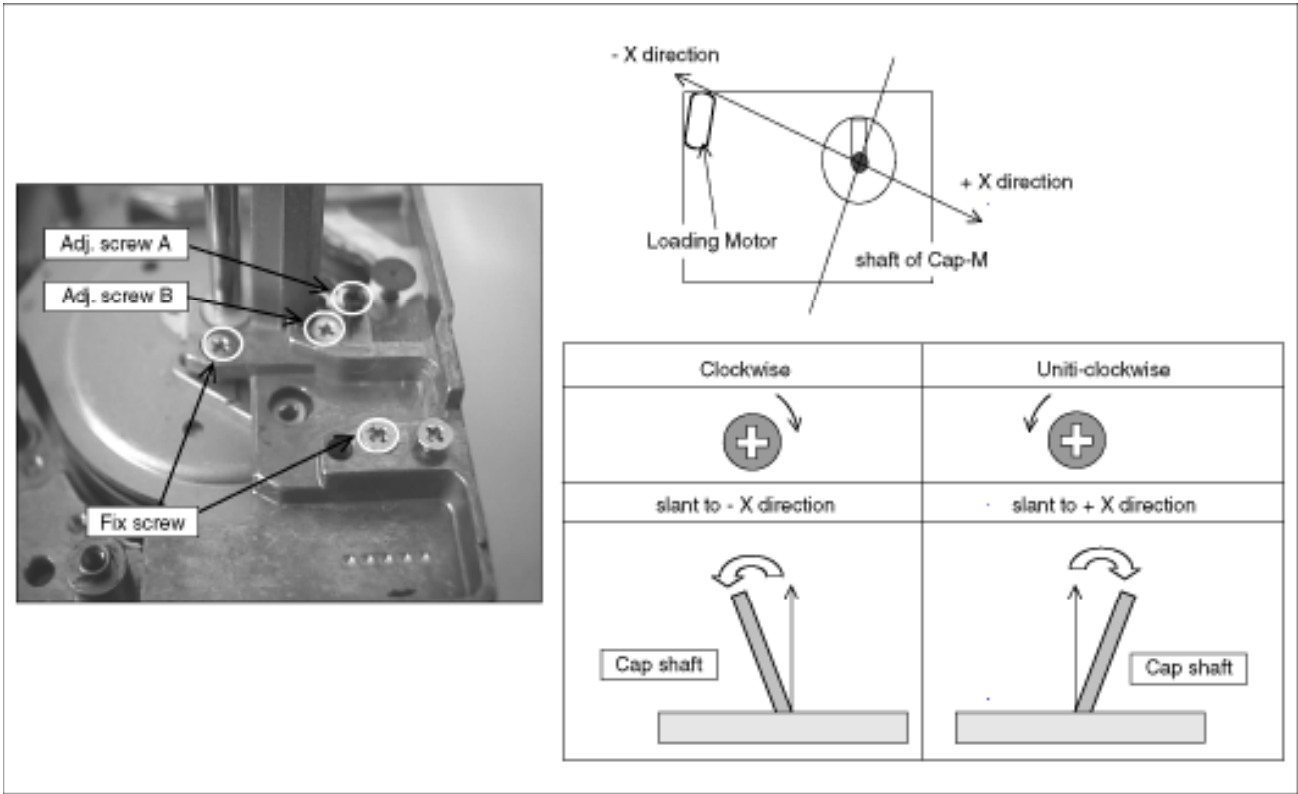


Fig. AD5-1

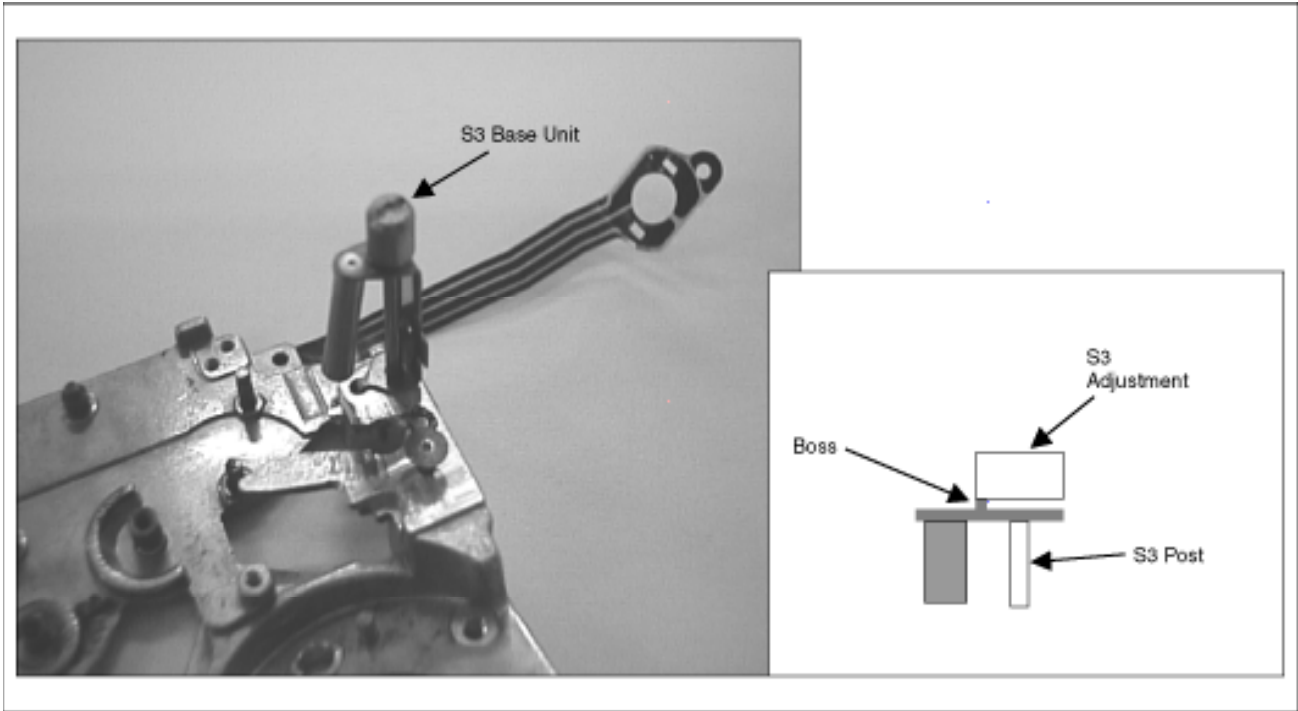


Fig. AD5-2

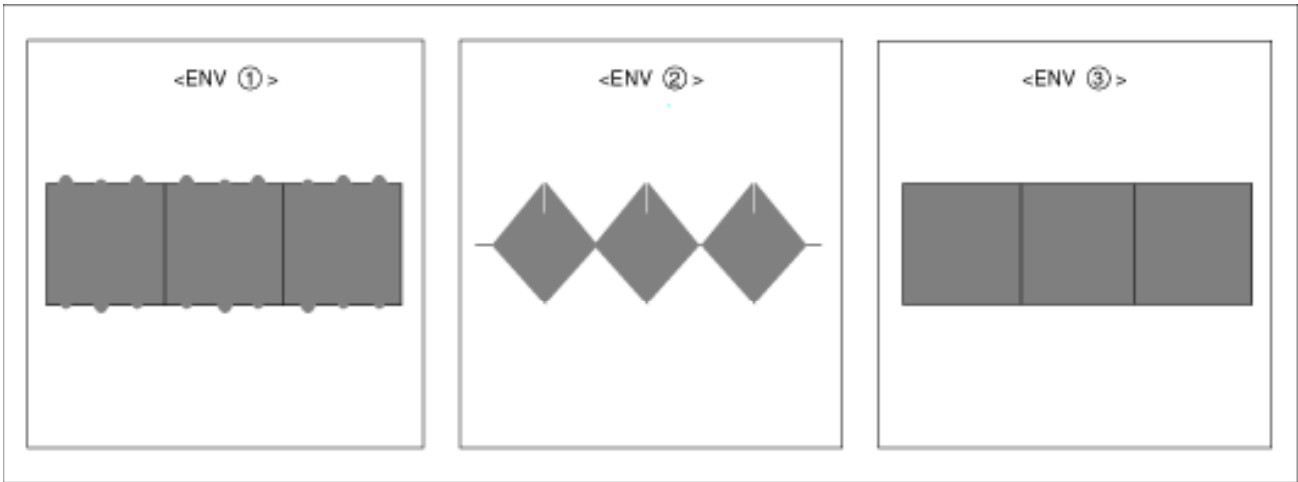


Fig. AD6-1

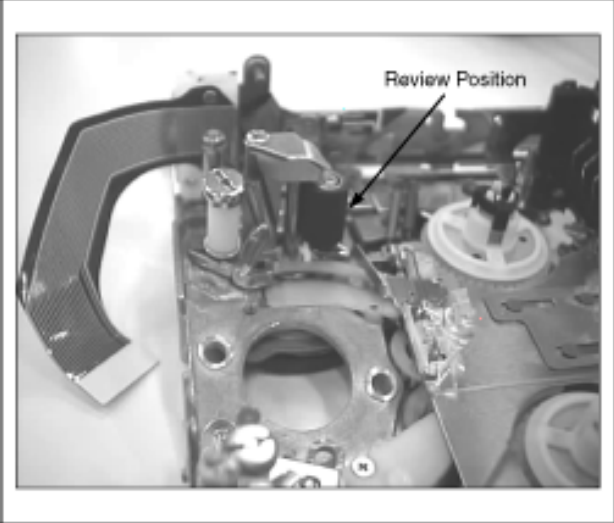
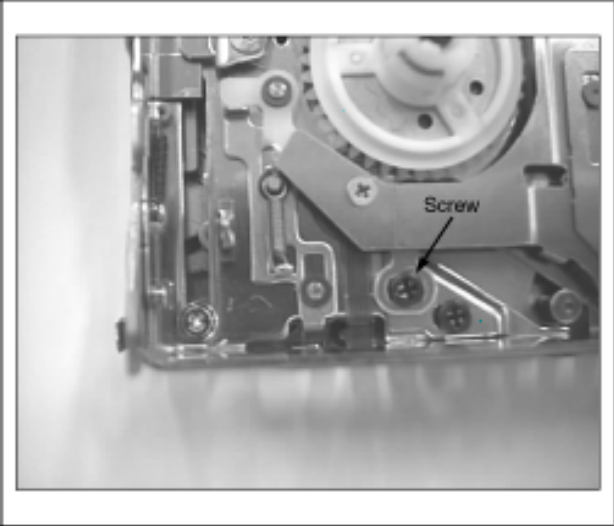


Fig. AD6-2



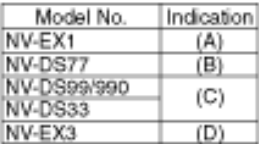
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6.1 Q1& Q2 VCR MECHANISM SECTION (1)

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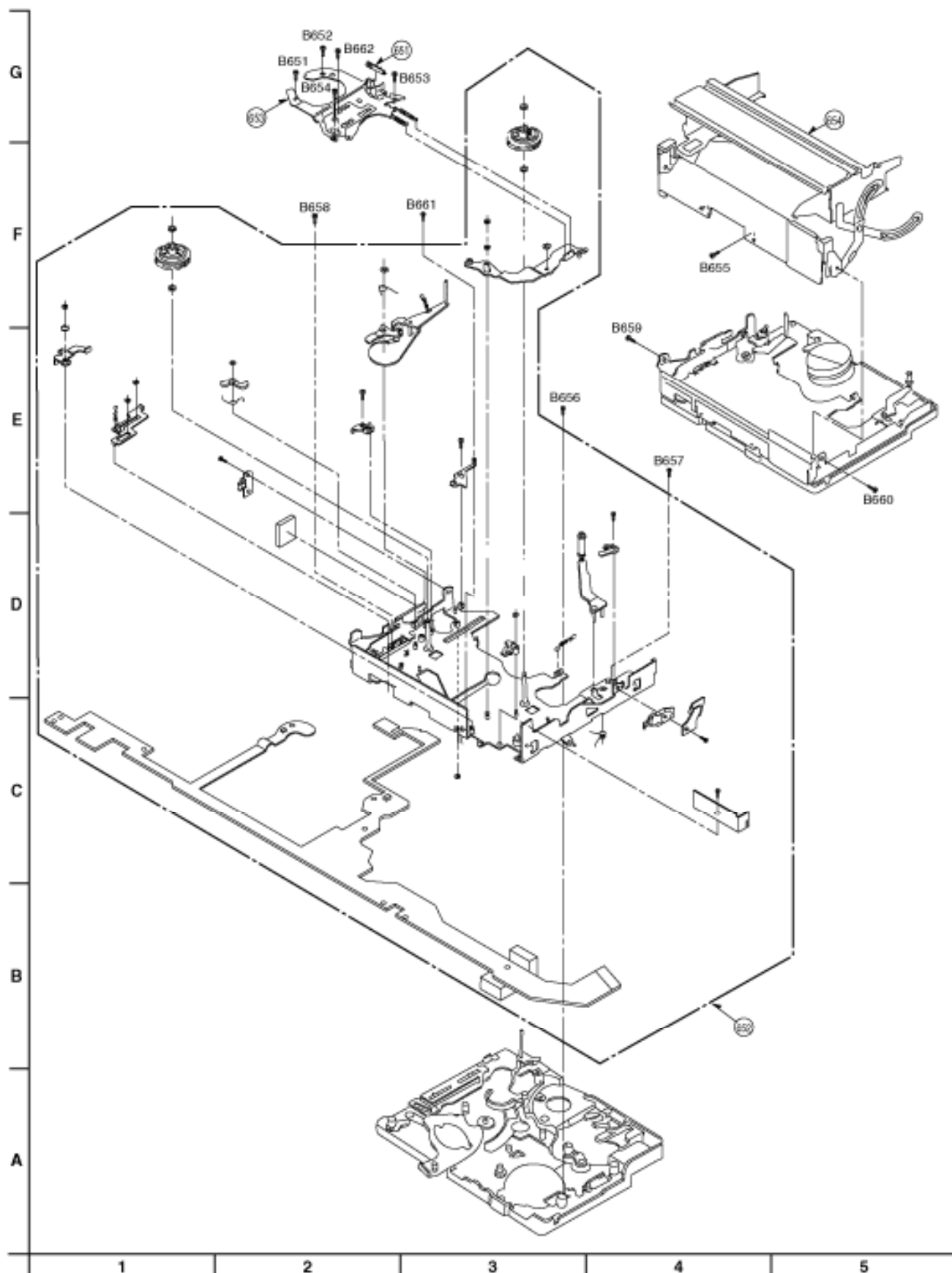


6.2 Q1& Q2 VCR MECHANISM SECTION (2)

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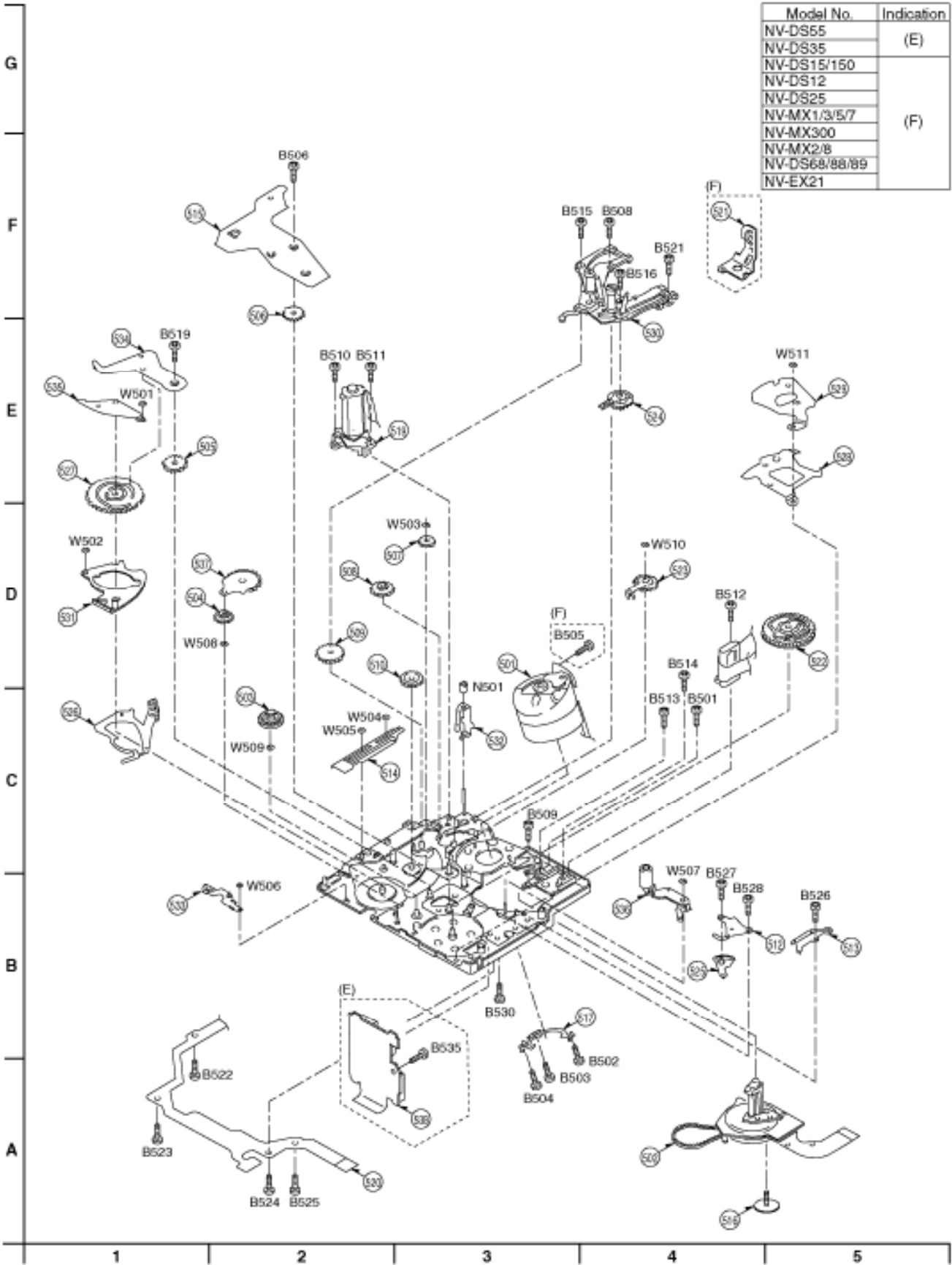


6.3 Q3 VCR MECHANISM SECTION (1)

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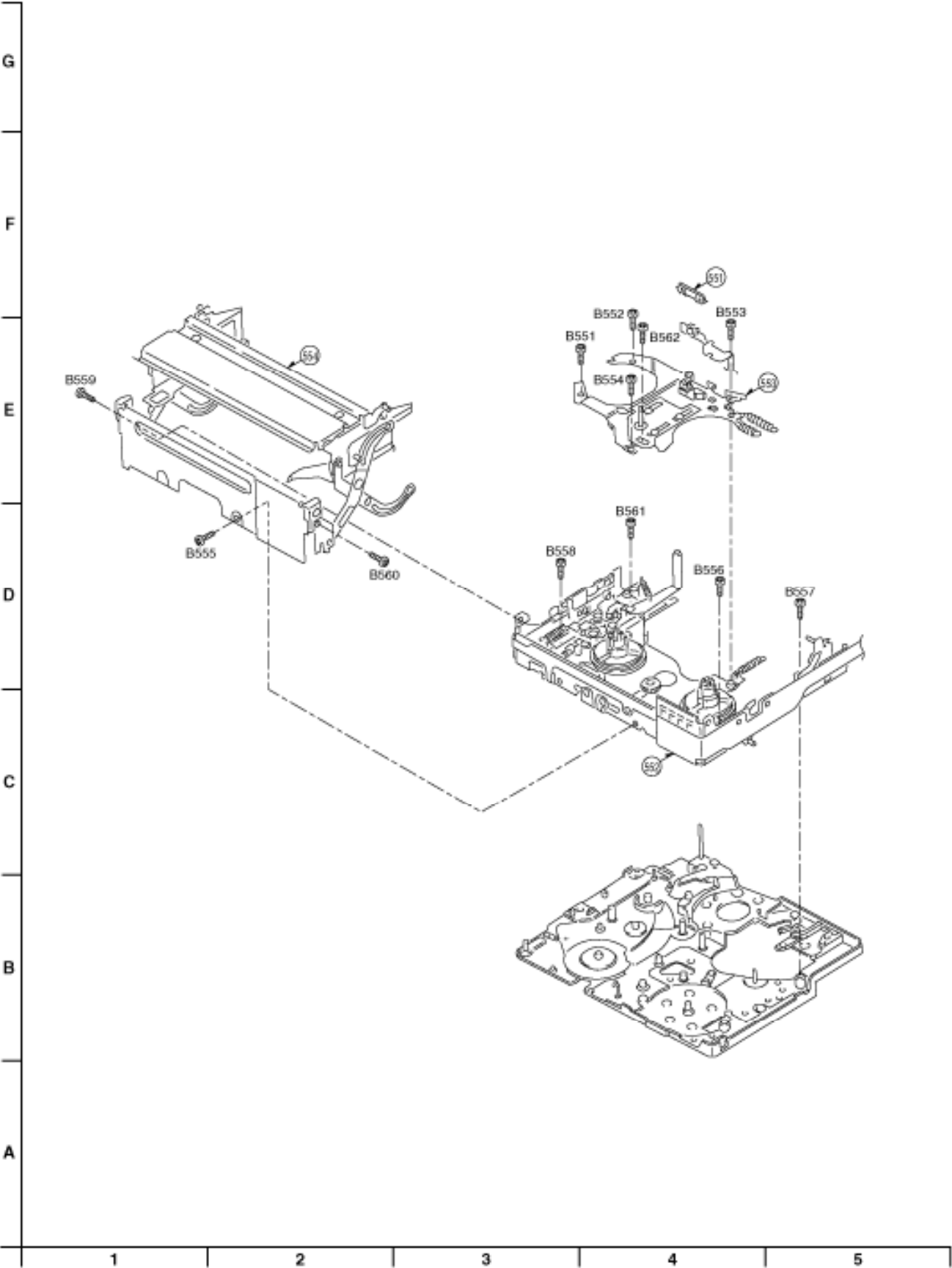


6.4 Q3 VCR MECHANISM SECTION (2)

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7.1 Q1& Q2 VCR MECHANISM SECTION

(1) PARTS LIST

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Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE:
Components identified with the mark Δ, have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
601	VEG1495	CYLINDER U.	
602	DFX25A7VWB	CAPSTAN U.	
603	VDG1284	DRIVE GEAR	
604	VDG1285	CENTER GEAR	
605	VDG1290	INTERFACE GEAR (C)	
606	VDG1291	INTERFACE GEAR (D)	
607	VDG1295	DECELERATION (A)	NV-EX1,NV-DS77
607	VDG1330	DECELERATION (A)	NV-DS99/990,NV-DS33,NV-EX3
608	VDG1296	DECELERATION (B)	NV-EX1,NV-DS77
608	VDG1331	DECELERATION (B)	NV-DS99/990,NV-DS33,NV-EX3
609	VDG1297	INTERFACE GEAR (A)	
610	VDG1303-A	INTERFACE GEAR (B)	
612	VMA9908	PULLEY COVER	
613	VMA9916	T4 GUIDE	
614	VMA9917	TENSION PLATE	
615	VMA0E52	GEAR COVER	
616	VHD1430	CAPSTAN HOLDER	NV-EX3
617	VMC1443	CYLINDER SPRING	
618	L6DA8DKC0001	LOADING MOTOR U.	NV-EX1,NV-DS77
619	VEM0679	LOADING MOTOR U.	NV-DS99/990,NV-DS33,NV-EX3
620	VWJ1297	MECHANISM INTERFACE FLEX.	NV-DS99/990,NV-DS33,NV-EX3
622	K0ZZ00000453	MODE SWITCH	
623	VXA6124	S LOAD GEAR U.	
624	VXA6125	T LOAD GEAR U.	

625	VXA6133	PULLEY COVER	
626	VXA6134	CHASSIS RADON U.	
627	VXA6135	CAM GEAR U.	
628	VXA6136	PINCH BEETLE	
629	VXA6137	RELEASE BEETLE	
630	VXA6138	RAIL U.	
631	VXA6169	BOAT RADON U.	
632	VXA6184	S3 BASE U.	
633	VXL2814	EJECT LEVER U.	
634	VXL2815	TENSION LEVER U.	
635	VXL2816	EJECT ARM U.	
636	VXL2897	PINCH ARM U.	
637	VXL2818	IDLER U.	
638	VYK8485	HEAD AMP U.	NV-EX1
638	VYK8244	HEAD AMP U.	NV-DS77
638	VYK8886	HEAD AMP U.	NV-DS99/990,NV-DS33
638	VYK9102	HEAD AMP U.	NV-EX3
621	VSC4802	SHIELD CASE	NV-EX1
621	VSC4758	SHIELD CASE	NV-DS77,NV-DS99/990,NV-DS33
639	VMA9926	CAPSTAN HOLDER	NV-EX1,NV-DS77,NV-DS99/990,NV-DS33
B601	VHD1155	SCREW	
B602	VHD1372	SCREW	
B603	VHD1372	SCREW	
B604	VHD1372	SCREW	
B606	VHD1160	SCREW	
B608	VHD1160	SCREW	
B609	VHD1406	SCREW	
B610	VHD1161	SCREW	
B611	VHD1161	SCREW	
B612	VHD1161	SCREW	
B613	VHD1161	SCREW	
B614	VHD1161	SCREW	

B615	VHD1162	SCREW	
B616	VHD1162	SCREW	
B619	VHD1163	SCREW	
B621	XQN12+B1	SCREW	
B622	XQN12+A1	SCREW	
B623	XQN12+A1	SCREW	
B624	XQN12+A1	SCREW	
B625	XQN12+A1	SCREW	
B626	XQN12+A1	SCREW	
B627	XQN12+A12FN	SCREW	
B628	XQN12+A12FN	SCREW	
B631	XQN12+B2	SCREW	
B632	VHD1162	SCREW	NV-EX1,NV-DS77,NV-DS99/990,NV-DS33
B633	VHD1162	SCREW	NV-EX1,NV-DS77,NV-DS99/990,NV-DS33
B634	XQN16+B12	SCREW	NV-EX1,NV-DS77,NV-DS99/990,NV-DS33
N601	VHN0324	NUT	
W601	VMX2028	WASHER	
W602	VMX2751	WASHER	
W603	VMX2752	WASHER	
W604	VMX2392	WASHER	
W605	VMX2028	WASHER	
W606	VMX2028	WASHER	
W607	VMX2028	WASHER	
W608	VMX2028	WASHER	
W609	VMX2028	WASHER	
W610	VMX2028	WASHER	
W611	VMX2028	WASHER	

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7.2 Q1& Q2 VCR MECHANISM SECTION

(2) PARTS LIST

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Note: 1. Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE:
Components identified with the mark Δ, have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
651	VMD2975	LED HOLDER	
652	VXA6537	SUB SHASSIS U.	NV-DS99/990,NV-DS33,NV-EX3
652	VXA6146	SUB SHASSIS U.	NV-EX1,NV-DS77
653	VXA6151	COVER PLATE U.	
654	VXA6159	CASSETTE UP U.	
B651	VHD1162	SCREW	
B652	VHD1162	SCREW	
B653	VHD1162	SCREW	
B654	VHD1162	SCREW	
B655	VHD1207	SCREW	
B656	VHD1164	SCREW	
B657	VHD1164	SCREW	
B658	VHD1171	SCREW	
B659	VHD1314	SCREW	
B660	VHD1314	SCREW	
B661	VHD1163	SCREW	
B662	VHD1163	SCREW	

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7.3 Q3 VCR MECHANISM SECTION (1)

PARTS LIST

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Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE:
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
501	VEG1570	CYLINDER U.	NV-EX21,NV-DS68/88/89/25/12/15/150,NV-MX2/8/300/1/3/5/7
501	VEG1495	CYLINDER U.	NV-DS35/55
502	DFX25A7VWC	CAPSTAN U.	NV-EX21,NV-DS68/88/89/25/12/15/150,NV-MX2/8/300/1/3/5/7
502	DFX25A7VWB	CAPSTAN U.	NV-DS35/55
503	VDG1284	DRIVE GEAR	
504	VDG1285	CENTER GEAR	
505	VDG1290	INTERFACE GEAR (C)	
506	VDG1291	INTERFACE GEAR (D)	
507	VDG1330	DECELERATION GEAR (A)	
508	VDG1331	DECELERATION GEAR (B)	
509	VDG1297	INTERFACE GEAR (A)	
510	VDG1303	INTERFACE GEAR (B)	
512	VMA9908	PULLEY COVER	
513	VMA9916	T4 GUIDE	
514	VMA9917	TENSION PLATE	
515	VMA0E52	GEAR COVER	
516	VHD1430	CAPSTAN HOLDER	
517	VMC1443	CYLINDER SPRING	
519	VEM0679	LOADING MOTOR U.	
520	VWJ1297	MECHANISM INTERFACE FLEX.	
521	VMP6271	RT FLEX. FRAME	NV-EX21,NV-DS68/88/89/25/12/15/150,NV-MX2/8/300/1/3/5/7
522	K0ZZ00000453	MODE SWITCH	
523	VXA6124	S LOAD GEAR U.	
524	VXA6125	T LOAD GEAR U.	

525	VXA6133	PULLEY	
526	VXA6134	CHASSIS RADON U.	
527	VXA6135	CAM GEAR U.	
528	VXA6136	PINCH BEETLE	
529	VXA6137	RELEASE BEETLE	
530	VXA6138	RAIL U.	
531	VXA6169	BOAT RADON U.	
532	VXA6184	S3 BASE U.	
533	VXL2814	EJECT LEVER U.	
534	VXL2815	TENSION LEVER U.	
535	VXL2816	EJECT ARM U.	
536	VXL2897	PINCH ARM U.	
537	VXL2818	IDLER U.	
538	VYK8886	HEAD AMP U.	NV-DS35/55
B501	VHD1155	SCREW	
B502	VHD1372	SCREW	
B503	VHD1372	SCREW	
B504	VHD1372	SCREW	
B505	XQN14+B1FN	SCREW	NV-EX21,NV-DS68/88/89/25/12/15/150,NV-MX2/8/300/1/3/5/7
B506	VHD1160	SCREW	
B508	VHD1160	SCREW	
B509	VHD1406	SCREW	
B510	VHD1161	SCREW	
B511	VHD1161	SCREW	
B512	VHD1161	SCREW	
B513	VHD1161	SCREW	
B514	VHD1161	SCREW	
B515	VHD1162	SCREW	
B516	VHD1162	SCREW	
B519	VHD1163	SCREW	
B521	XQN12+B1	SCREW	
B522	XQN12+A1	SCREW	

B523	XQN12+A1	SCREW	
B524	XQN12+A1	SCREW	
B525	XQN12+A1	SCREW	
B526	XQN12+A1	SCREW	
B527	XQN12+A12FN	SCREW	
B528	XQN12+A12FN	SCREW	
B530	XQN16+B2	SCREW	
B535	XQN16+B3	SCREW	NV-DS35/55
N501	VHN0324	NUT	
W501	VMX2028	WASHER	
W502	VMX2028	WASHER	
W503	VMX2028	WASHER	
W504	VMX2028	WASHER	
W505	VMX2028	WASHER	
W506	VMX2028	WASHER	
W507	VMX2028	WASHER	
W508	VMX2751	WASHER	
W509	VMX2752	WASHER	
W510	VMX2392	WASHER	
W511	VMX2028	WASHER	

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7.4 Q3 VCR MECHANISM SECTION (2)

PARTS LIST

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Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE:
Components identified with the mark Δ, have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
551	VMD2975	LED HOLDER	
552	VXA6537	SUB CHASSIS U.	
553	VXA6151	COVER PLATE U.	
554	VXA6159	CASSETTE UP U.	
B551	VHD1162	SCREW	
B552	VHD1162	SCREW	
B553	VHD1162	SCREW	
B554	VHD1162	SCREW	
B555	VHD1207	SCREW	
B556	VHD1164	SCREW	
B557	VHD1164	SCREW	
B558	VHD1171	SCREW	
B559	VHD1314	SCREW	
B560	VHD1314	SCREW	
B561	VHD1163	SCREW	
B562	VHD1163	SCREW	

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